J. H. KLEINFELDER & ASSOCIATES

HYDROGEOLOGIC ASSESSMENT

POND NUMBER 1

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

SANTA FE SPRINGS, CALIFORNIA

10-24-85 4A

OCT 2 4 1985 SO. CALIF. CHEM. CO.



I. H. KLEINFELDER & ASSOCIATES

GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS • MATERIALS TESTING LAND & WATER RESOURCES

VICTORIA CORNER BUSINESS PARK 901 WEST VICTORIA STREET, SUITE G COMPTON, CALIFORNIA 90220

(213) 638-9344

October 24, 1985

Southern California Chemical Co., Inc. 8851 Dice Road Santa Fe Springs, California 90620

Attention: Ms. Tere King

Dear Ms. King:

Attached to this letter is our final report entitled "Hydrogeologic Assessment of Pond Number 1, Southern California Chemical Company, Santa Fe Springs, California". The report presents a summary of the field exploration, laboratory testing and analysis prepared during investigation.

We trust the information presented in the report meets your needs at this time. Should you have any questions regarding the report, please feel free to contact us at your convenience.

Very truly yours,

J. H. KLEINFELDER & ASSOCIATES

enneth Courant

Kenneth L. Durand Hydrogeologist

Randolph Harris

Randolph C. Harris Senior Hydrogeologist

KLD/RCH:gw

Attachment

HYDROGEOLOGIC ASSESSMENT OF POND NUMBER 1 SOUTHERN CALIFORNIA CHEMICAL CO., INC. SANTA FE SPRINGS, CALIFORNIA

1.0 INTRODUCTION

This report summarizes the work and findings of the hydrogeologic assessment of Southern California Chemical Company's pond number 1. The purpose of this investigation was to determine if there has been leakage of pond number 1.

A site plan illustrating the facility is presented on plate 1 with the study area and location of pond number 1 illustrated on plate 2.

2.0 SCOPE OF WORK

The following scope of work was developed to determine if contamination of the soil or groundwater exists in the area of pond number 1 and, if contamination does exist, to determine its source. To that end, this work plan was developed to provide a technically sound, reasonable, and cost-effective approach to assessing the site.

2.1 Soil Borings/Sampling

A total of 11 soil borings were drilled in the vicinity of pond 1. The location of these borings are presented on plate 2. Depth of the borings ranged between 15 and 107 feet. Individual boring depths are presented in Table A and on the boring logs. Due to artesian groundwater conditions, the use of hollowstem equipment beneath 45 feet was impossible. With the concurrence of the Regional Water Quality Control Board (RWQLB), the borings were drilled by the hollowstem auger method for the upper 45 feet. If the boring was deeper than 45 feet, then mud rotary equipment was used for the remainder of the hole. The augers, drill rod and drill bits were steam cleaned prior to use and between borings to minimize the potential for cross contamination. The drilling was performed by Datum Exploration under the observations of a J.H. Kleinfelder staff geologist who visually logged the borings and classified the soils. The boring logs are presented on Plate Nos. 4 through 14. Plate No. 3 illustrates the Unified Soils Classification System used to classify the soils encountered.

Soil samples were collected during the drilling operation at approximately 5 foot intervals in the unsaturated zone and then at stratigraphically significant intervals once groundwater was encountered. A modified Porter Sampler was used to collect samples. Soil samples were collected for both laboratory analysis and for visual classification of soil types. All retained soil samples were collected in brass sampling tubes, sealed with aluminum lined caps, labeled, and delivered to Brown and Caldwell Laboratories, Pasadena, California for chemical analysis, with the appropriate chain of custody form. Copies of the chain of custody forms are included in the Appendix.

2.2 Monitoring Well Construction/Development

Five of the soil test borings were completed as monitoring wells. Monitoring wells 4, 8 and 10 were constructed with 2-inch diameter PVC pipe and 0.020 inch machine slotted screen. Wells 4A and 9 were constructed with 4 -inch diameter PVC pipe and 0.020 inch machine slotted screen. The screened section annulus was packed with clean sand and a bentonite plug was placed above the sand pack. The remaining annulus was cemented from the plug up to the surface. No solvents or glues were used during the well construction. The details of each individual well completion are shown on each respective boring log.

Each well was finished with either an aluminum well head box with a moisture and tamper resistant lid or a locking steel cased well protector. The well head boxes are set 1 to 2 inches above ground level, with a finished cement apron to minimize the potential for entrance of surface fluids. A 3-foot high well protector was used on MW-4A to prevent damage due to truck traffic.

After installation the wells were developed with an air lift developing tool equipped with a foot valve to prevent the introduction of air into the formation. The wells were pumped until the water was relatively clear.

2.3 Water Sampling

All wells were measured for static water level prior to sampling. The wells were then purged and sampled using an air activated submersible pump (bladder pump) constructed of stainless steel and silicon. To minimize the potential for cross-contamination, the

pump and teflon sampling line were thoroughly decontaminated before sampling and between wells by the following procedure:

- Exterior surface of sampling tubes are decontaminated by steam cleaning during withdrawal from every well.
- 2. Sample pump is disassembled and the used bladder removed.
- All pump components are then steam cleaned and rinsed in distilled water.
- 4. Pump is reassembled with a new bladder installed.
- 5. Teflon sampler lines are pressure washed with 5 to 10 gallons of clean, hot water through direct connection to steam cleaner.
- Five gallons of distilled water are then pumped through entire systme.

Prior to sample collection, a minimum of five well volumes are purged from the well to permit collection of a representative groundwater sample from the aquifer penetrated.

2.4 Laboratory Testing/Quality Control

Laboratory testing for this project consisted of analyzing 59 soil samples and 6 water samples. Soils were analyzed for the substances that have historically been used in the pond. These are listed in Table B. Water samples from monitoring well number 4 were analyzed for: 1) the parameters that characterize the suitability of the groundwater as a drinking water supply as specified in 40 CFR part 265 Appendix III; 2) the parameters that establish the groundwater quality as specified in 40 CFR part 265.92 (b) (a); 3)

the parameters used as indicators of groundwater contamination as specified in 40 CFR part 265.92 (b)(3); and 4) the compounds requested by Department of Health Services (DOHS) and the RWQCB in their letter dated December 11, 1984. These parameters are listed in Table C. Monitoring wells 4A, 8, 9 and 10 were analyzed for: 1) the parameters used as indicators of groundwater contamination as specified in 40 CFR part 265.92 (b)(3); and 2) substances detected above drinking water standards in monitoring well 4 during previous work. The testing was performed at Brown and Caldwell, Pasadena, California. The results of the laboratory testing ware summarized and presented in Tables D through G of the Appendices. Individual test results are included in Appendixs A & B. All analysis was performed by procedures outlined in the 14th Edition of Standard Methods.

To monitor the precision and accuracy of the chemical data, the following quality assurance measures were employed:

- Duplicate samples,
- Split samples,
- Trip blank testing,
- 4. Cross contamination testing.

Duplicate samples were taken at each sampling site. In the case of 40 ml VOA vials, four samples were obtained for each parameter as required in 40 CFR section 265.82 (b)(3). This ensures that if breakage or trouble with the testing equipment occurs, there is a backup sample to test. This also allows a recheck on results if there is an inconsistency or if confirmation of results is necessary.

Trip blank (distilled water) was included by the laboratory to monitor quality control during transportation and testing of the samples. Split samples were provided to both the RWCQB and Southern California Chemical Company. Comparison of the results for chromium in monitoring well 4, the major chemical of concern, demonstrate the relative consistency of the data. The Regional Board's laboratory consistencedetected 520 ppm of total chromium. Brown and Caldwell detected 500 ppm of total chromium. Southern California Chemical Company's in-house laboratory detected 520 ppm of total chromium in the groundwater. This consistency demonstrates a high level of confidence in the results.

In an effort to ensure the precision and accuracy of the data, quality control measures were employed to both minimize and measure cross-contamination potential.

To minimize cross-contamination between field samplings, the pump and sample lines are purged by the procedure detailed in Section 2.3. The total volume of pump and lines is less than one-half gallon. The pumping results in 20 to 26 volumes of clean water being flushed through the system.

All samples were labeled during sampling and shipped refrigerated to Brown and Caldwell Laboratories, Pasadena, California. A chain of custody form was maintained for all samples taken. Copies of these forms are included in Appendix C.

3.0 GEOLOGY/HYDROGEOLOGY

3.1 Geology

Southern California Chemical Company's Santa Fe Springs facility is located in Section 31 of Township 2 South, Range 11 west (San Bernardino Base meridian), within the Santa Fe Springs Plain area of the coastal plain of Los Angeles County, California. The Santa Fe Springs Plains is a low, slightly rolling topographic feature that has been warped by the Santa Fe Springs - Coyote Hills anticlinal system. These plains dip gently both to the northeast toward Whittier and to the southwest toward the Downey Plains, with an elevation difference that ranges between 175 and 200 feet above sea level.

The site is located on upper Pleistocene alluvium of the Lakewood Formation. The Lakewood formation unconformably overlies the lower Pleistocene San Pedro formation, the Pliocene Pico and Repetto formations, and the Miocene Puente formation. Beneath the site, only the Lakewood and the San Pedro formations contain fresh water bearing units (Plate 15).

3.2 Hydrogeology

The site area is located on surface exposure of the Bellflower Aquiclude, a low permeability portion of the Lakewood formation. This late Pleistocene alluvial formation is approximately 15 to 20 feet thick and consists of clays, silts, silty clays and sandy clays at this location. The Gage Aquifer underlies this and is approximately 15 to 20 feet thick, consisting of fine to medium sands area. Under the Southern California Chemical site the Gage Aquifer is dry. literature (2) places the bottom of the Gage Aquifer at approximately 50 feet beneath tĥe surface. On-site borings indicated

that the bottom of the Gage is actually at approximately 30 to 35 feet. All the borings drilled on site encountered a clay to silty clay layer beneath the Gage. This is most likely the top of the uppermost aquiclude of the San Pedro Formation. This aquiclude is approximately 15 to 20 feet thick and serves to separate the Gage Aquifer from the Jefferson Aquifer. The Jefferson Aquifer underlies this aquiclude and is the uppermost aquifer beneath the site. All water samples were obtained from this aquifer. The transmissivity of this aquifer is on the order of 40,000 gallons per day per foot (2) beneath the site. Based on an assumed aquifer thickness of 50 feet and an error factor of 1 x 10', a permeability range of 8000 to 80 gal/day/ft² can be expected.

The general regional flow of groundwater in the area is to the south to southwest (3, 9). The water levels measured in the monitoring wells indicate a site-specific flow to the south-southwest. Plate 16 illustrates the approximate water level contours and flow direction based on the data generated during this study.

4.0 HISTORY OF POND 1

Pond number 1 was a 36,000 gallon wastewater treatment pond located approximately in the center of the facility. The pond was constructed in 1975 of 6" reinforced concrete. Company records indicate that the contents of the pond varied only slightly during the ten years of operation. Plate 17 presents the reactions, quantities and frequencies of chemicals used in pond 1. Sludge from this pond was periodically removed and disposed of in an approved facility. Representative hazardous waste monitoring of this sludge

removed during the period December 1981 to present are included in Appendix D. Reviewing the chemical reactions as outlined in plate 17 indicate that the pH of the pond was maintained above 6. The only exception to this was during the period between January 1983 and August 1984, chromic-sulfuric acid was added just prior (½ to 1 hour) to sludge removal. This mixing of pond sludge and acid was done to neutralize the acid so it would be accepted by the Class I landfill.

In August 1985 use of the pond was discontinued. After the pond was drained and cleaned, there were no visible signs of leakage, or of chemical degradation of the concrete. This was expected since the high pH of the pond precipitated gypsum which reinforced the pond's seal.

5.0 CHEMICAL DATA

5.1 Groundwater Samples

Groundwater samples were collected from monitoring wells 4A, 8, 9 and 10 between July 24, 1985 and August 30, 1985. Representatives of the Regional Board and Southern California Chemical Company were present during sampling and were provided split samples when requested.

Analyses of the water from the five monitoring wells are presented in Tables F and G. Chromium, cadmium and nitrates are below drinking water standards for all wells except MW 4. Monitoring well 4 contains levels up to 0.78 mg/l of cadmium, 500 mg/l of chromium, and 81 mg/l of nitrate (NO₃). Specific conductance of all the wells except MW 4A are above drinking water standards. This, however, is not uncommon

for shallow aquifers in the Los Angeles County. TOC was detected at levels up to 440 mg/l in MW 10 and up to 210 mg/l in MW 9. These are above background for this area. In addition, organic chemicals were detected in MW 4 at levels up to 10 mg/l. The laboratory data reports are indicated in Appendix.

5.2 Soil Samples

59 soil samples from the pond area were analyzed for pH, cadmium, chromium, copper, zinc, nickel, chloride, sulfate, ammonia nitrogen and carbonate. Thirty of these samples were analyzed by Brown & Caldwell Laboratories. These are presented on Tables D and E. The other 29 samples were analyzed by Southern California Chemical's inhouse lab. Soil concentrations are presented on plates 18 through 23.

Chromium

Chromium values on site range from 30,000 mg/kg to 3.7 (Plate 18). The high values were detected in the old tank area with values up to 30,000 mg/kg at 5 feet, decreasing to 3,000 mg/kg at 35 feet. Beneath the pond, values increase from the 50 mg/kg range at 10 feet to 2,000 mg/kg at 30 feet.

pН

Values for pH ranged between 3.1 and 8.7 in the study area (Plate 19). Values beneath the pond were significantly lower than levels detected around the pond. This is significant since the pH levels of the product in the pond were between 6 and 13.

Copper

Copper was detected at levels between 13,000 mg/kg and 25 mg/kg in the study area. The higher levels (above 1,000 mg/kg) were detected in the old tank area. Beneath the pond values ranged between 100 and 500 mg/l (Plate 20).

Chloride

Chloride levels on site ranged between 420 mg/kg and 5,500 mg/kg. The highest level was detected in slant boring 2, 35 feet beneath the pond. Chloride in the old tank area ranged between 1,100 and 1,800 mg/kg (Plate 21).

Other Substances

Cadmium, zinc, nickel, sulfate, ammonia nitrogen, and carbonate were analyzed in selective samples. Except for the 15-foot sample of Boring 6, no significant levels of these substances were detected.

6.0 DISCUSSION

6.1 Water Quality

As part of Phase I of this study, seven monitoring wells were completed and sampled for all the RCRA requirements. Of all the monitoring wells, only one (MW4) had levels above the Primary Drinking Water Standards. Chromium, cadmium, and nitrates were detected in MW4. A second phase of investigation was undertaken to determine the horizontal and vertical extent of the chemical constituents in the groundwater. Four additional monitoring wells (MW4A, 8, 9, and

10) were installed around the wastewater pond. After sampling these new wells, it was determined that none of the substances detected above the Primary Drinking Water Standards in MW4 during Phase I exist above the standards in these new wells. At present therefore, the chemical compounds have only been identified in MW4. If it is assumed that the chemical constituent plume extends up to each of the nearest monitoring wells, the contamination plume is at the most 80 to 100 feet long (north - south) by 40 to 50 wide (east - west) and is contained within the site boundaries. In addition, the plume was not detected in MW4A, which was screened at a deeper interval (87 to 107 feet) then MW 4 (45 to 75 feet). The top of the confined aquifer beneath the pond is at 55 feet. Assuming the chemical constituents extend vertically to just above the 87-foot level, the maximum plume thickness at MW4 is approximately 32 feet.

During Phase I sampling, the Los Angeles Regional Water Quality Control Board (RWQCB) was provided split samples for analysis. In addition to the RCRA substances, as outlined in the original study plan, the RWQCB analyzed for organic chemicals. The RWQCB analysis indicated the presence of Toluene, Xylene, Ethylbenzene and a number of other organic compounds in the groundnwater beneath the site. Southern California Chemical then resampled and verified these analyses.

Once the maximum probable extent of the plume had been approximated, the source needed to be identified. The source of the organics has not yet been identified. Southern California Chemical Company is solely an inorganic chemical manufacturer. Company records

indicate that organic chemicals have never been used on site, even in laboratory quantities. It should be noted that eight of the surrounding neighbors are organic chemical plants. It is not known how organic compounds have migrated into the water sampled at MW4.

Review of company records indicates that the source of chromium in the water could be the result of one of three possibilities: the first is surface spillage before the plant was paved; the second is the wastewater pond; and the third is an underground storage tank that was removed 11-15 years previously and that apparently to have leaked. As will be discussed in the next two sections, the possibility that surface spillage was the source is still unknown. The waste water pond as the source is highly unlikely. The most likely source is the old tank area.

6.2 Soil Quality

In order to determine the source of the contaminated groundwater, an additional set of soil borings were drilled. Two of these borings (Bl and B2) were slant drilled adjacent to and under the pond. The other four (B3, B4, B5 and B6) were drilled vertically to attempt to locate the site of the old underground tank. Company records indicated that this tank was located 40 to 50 feet to the northeast of pond number 1. This tank contained a chrome etching solution which was a chrome, copper, chloride, ammonia, nitrogen and sulfate mixture and was low in pH. From the borings and the monitoring wells (MW4, 4A, 8, 9 and 10), selected soil samples were analyzed. The results of these analyses are presented in Tables D and E and illustrated on plates 18 to 23.

Review of the data in Tables D and E indicate elevated levels of chromium in the shallow soils at the site of the old tank. These levels decrease with depth, which suggests a surface or near surface source existed/exists in this area. The data from borings Bl and B2 beneath the pond indicate that the chromium levels at the 10 foot depth are relatively low but the levels increase with depth. This suggests that the chromium is not coming from a surface source in this area, but is migrating under the pond from an outside source.

Analysis of the pH data from Table 19 provides a second and more convincing indicator that the chromium is apparently migrating under the pond from a source outside of the pond area. As discussed in Section 4.0, the liquid in the pond was maintained between pH 6 and 13. The pH values of the soil from borings Bl and B2 under the pond are neutral or acidic (pH 8-3.9) at shallow depths, and decrease to pH 5.5 to 3.3 with increasing depth. This indicates that the low pH source is most likely migrating laterally under the pond from an outside source.

The pH of the old chromium tank was in the range of 1 to 3, which explains the low pH values in the tank area.

Copper is another element which, like chromium and pH, has higher levels in the old tank area and low levels at shallow depths beneath the pond. The levels increase with depth. This also suggests that the old tank area is the probable source of the chemical constituents beneath the pond.

Further demonstration of this theory is provided by nitrogen (as ammonia) and sulfate. Both of these chemicals were used in the

wastewater pond. Both are only found at elevated levels in the tank area (in particular, in B6). Both were detected at only low levels beneath the pond.

Chloride is the only chemical that has higher values in the soils beneath the pond than in the tank area. This is to be expected since chloride is the most soluble and conservative of the substances that were stored in the old tank, and would have been easily displaced in the near surface by soil moisture migration once the source was removed.

6.3 <u>Vadose-Zone Transport</u>

Migration of contaminants from the old tank area to under the pond area likely occurred as unsaturated-zone migration, which is dissimilar to the forces governing saturated-zone migration. Capillary forces and gravitational attractions predominate, resulting in a downward migration except in those areas where fine-grained materials (silts and clays) overlie clean sands. In this case, capillary forces resist the vertical drainage from the fine-grained material until such time as the field capacity of the material is exceeded, at which time a "break through" of fluid will migrate downward through the sand to form a perched layer at the sand base. This explains the observed presence of high levels of chromium in the fine-grained layers, low levels in the upper portions of the sand layer, and high levels at the base of the sand.

Carbonate material present in the silts and sands have reacted with acidic material in the seepage to sequentially precipitate copper, but not hexavalent chromium. 11

7.0 CONCLUSIONS

The following general conclusions can be drawn from the foregoing data. Future studies may add to, and/or change these conclusions.

- A confined aquifer exists beneath the site with a potentiometric surface between approximately 42 to 45 feet below ground level.
- The general direction of groundwater flow is to the southsouthwest.
- 3. Relatively low permeability soils were encountered from the surface to approximately 10 feet below ground surface. A second low permeability zone was encountered at approximately 25 to 50 feet below ground surface.
- 4. Based on the chemical data presented in this report, there is no evidence that leakage of pond number 1 has occurred.
- 5. The elevated levels of chrome and copper detected under the pond appear to have been due to leakage from the old tank area.
- 6. Waste from the old tank area migrated vertically through the vadose zone to the base of the 30 foot sand and then laterally under the pond.

8.0 RECOMMENDATIONS

 Immediately implement groundwater extraction to remove high levels of chromium and organics in the vicinity of MW 4. 2. Promptly implement the pilot study to determine the optimum treatment procedure for possible in site treatment of the soil in the old tank area.

9.0 REFERENCES

The references used in the preparation of this preliminary report include, but are not limited to, the following:

- 1. U.S.G.S. Topographic Map, Whittier Quadrangle, 1981.
- DWR Bulletin 104, Appendix A.
- 3. Division of Water Rights, map, Location of Water Wells.
- Watermaster Service Central Basin, Los Angeles County,
 July 1, 1981 June 30, 1982.
- 5. Watermaster Service Central Basin, Los Angeles County, July 1, 1982 - June 30, 1983.
- 6. DWR Bulletin 8.
- 7. DWR Bulletin 63, Appendix A.
- Report on TCE Investigation, Los Angeles Regional Water
 Quality Control Board, April 1980.
- Coastal Plain Ground Water Contours, Shallow Aquifer, Los Angeles Flood Control District, map no. 2-H240, Fall 1975.
- 10. Southern California Chemical Company records.
- 11. Rouse and Pyrih, (1985) "International Conference on New Frontiers in Waste Management."

10.0 LIMITATIONS

The conclusions and recommendations in this report are based on:

- 1. The 11 test borings performed at this site.
- 2. The observations of our field personnel.
- 3. The results of laboratory tests performed by Brown and Caldwell Laboratories.
- The results of the land survey conducted by Combs/Rodriguez 4. & Associates Land Surveying.
- 5. Measurements of groundwater elevations in the five monitoring wells.
- 6. Referenced documents.

It is possible that variations in the soil or groundwater conditions could exist beyond the points explored in investigation. Also, changes in the groundwater conditions found could occur at some time in the future due to variations in rainfall, temperature, regional water usage, or other factors. The services performed by J.H. Kleinfelder & Associates have been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the Los Angeles County Area. No other warranty, expressed or implied, is made.

Respectfully submitted,

J.H. KLEINFELDER & ASSOCIATES

Kenneth L. Durand

Hydrogeologist

andolph C. Harris Randolph C. Harris Senior Hydrogeologist

R.G. #3708

KLD: RCH: qa

Attachments

TABLE A MONITORING WELL AND BORING DEPTHS

Boring Number	Depth (ft)	Soil Boring or Monitoring Well	Perforated Interval (ft)
Bl	50	Soil Boring	
В2	40	Soil Boring	
В3	15	Soil Boring	
B 4	30	Soil Boring	
B5	30	Soil Boring	
В6	30	Soil Boring	
MW4	75	Monitoring Well	45 - 75
MW 4 A	107	Monitoring well	87 - 107
MW8	76	Monitoring Well	46 - 76
MW9	77	Monitoring Well	47 - 77
MW10	75	Monitoring Well	45 - 75

TABLE B

CHEMICALS USED IN POND NUMBER 1

Ammonium sulfate solution

Sodium chloride solution

Ferrous hydroxide solution

Copper ammonium chloride solution

Chromic-sulfuric acid solution *

Sodium sulfate solution

Sulfuric acid solution

Ammonium chloride

Free ammonium

Copper sulfide

Iron sulfide

Chrome sulfide

Nickel sulfide

Zinc sulfide

Lead sulfide

NOTES: * See discussion in Section 4.0 concerning Chromic-sulfuric acid solution.

TABLE C * WATER ANALYSIS PERFORMED

Drinking Water Parameters	Parameters Establishing Groundwater Quality	Parameters Indicating Groundwater Contamination*
Arsenic Borium **Cadmium **Chromium Fluoride	Chloride Iron Manganese Phenols Sodium	<pre>**pH **Specific Conductance **TOC **TOX</pre>
Lead Mercury **Nitrate Selenium Silver	Sulfate	•
Endrin Lindane Methoxphlor Toxaphene 2,4-D		
2,4,5-TP Silver Rodium Gross Alpha Coliform Bacteria		

Additional Analysis as required by DOHS & RWQCB

Ammonia Sulfides Hexavalent Chrome Nickel Zinc

NOTES: * = Groundwater indicator parameters performed in quads ** = Water analysis performed in Phase II study.

TABLE D
TABULATION OF SOIL DATA

(mg/kg)

											Ammonia	
Boring #		Depth	рH	Cadmium	Chromium	Copper	Zinc	Nickel	Chloride	Sulfate	Nitrogen	Carbonate
в1		· 10	8.0		53	470						
	*,	15	7.0		13	130						
		40	3.9	1.5	600	400	180		5100	20	29	ND
		50	5.5	8.0	280	160	95		2600	71	10	ND
В2		15	3.9		54	390						
		20	3.9		440	230						
		35	3.3	1.2	2000	250	120		5 500	41	42	ND
		40	3.3	1.4	150	550	170		2900	45	11	ND
в3		5	8.1		420	1200						
		15	6.3	ND 0.67	11	31	57	~ ~	1100	110	23	ND
В4		5	4.6		10000	480						
D4		10	4.0	ND 0.62	16000	820	92					
		25	4.0		550	1200	52		1400	450	25	ND
		25	4.2	ND 0.61	550	1200	32		1400	430	23	ND
B 5		5	8.7		85	230						
		10	8.3		30	78	79	26				
		15	4.8		3200	12000			1600	170	21	ND
		25	4.5		49	160	34	12				
В6		5	4.5		3700	460						
		15	3.6		5100	4100	430	240	1800	2000	500	ND
		15 25	4.2		1500	1400	43	98				

Notes = Depth is in feet ND 0.67 = Not Detected at 0.67 mg/kg (ppm)

TABLE E TABULATION OF SOIL DATA

(mg/kg)

Boring #	Depth	рн	Cadmium	Chromium	Copper	Zinc	Nickel	Chloride	Sulfate	Ammonia Nitrogen	Carbonate
4	10 30			16 19	37 50	52 72	21 25				
4A	10 25	4.9 6.2		14 67	410 24	110 150	31 9.7	 2700	79	. 29	ND
8	10 25	7.3 8.5		41 37	61 94	96 54	27 ND 3.1	 510	50	10	
9	15 25	6.9 7.4		15 4.3	28 18	55 29	19	4800	67 	8.4	ND
10	10 25	8.3 7.3		31 5.3	89 25	100 30	28 6.4	 470	 67	 66	ND

NOTES: Depth is in feet beneath ground surface.
ND 3.1 = Not Detected at 3.1 mg/kg (ppm).

TABLE F
TABULATION OF WATER DATA

(mg/1)

	MW 4	MW4A	MW8	MW9	MW10
Cadmium	0.78	ND 0.01	ND 0.01	ND 0.01	ND 0.01
Chromium (Total) Chromium (Hexavalent)	500 500	ND 0.03 ND 0.5	ND 0.03 ND 0.5	ND 0.03 ND 0.5	ND 0.03 ND 0.5
рн	6.3	6.8	6.6	6.4	6.8
Conductivity	6400	1500	2800	2200	2100
TOC	36	40 99		210	440
Nitrate as NO ₃	81 18	20 4.5	5.8 1.3	6.3 1.4	ND 0.44 ND 0.10

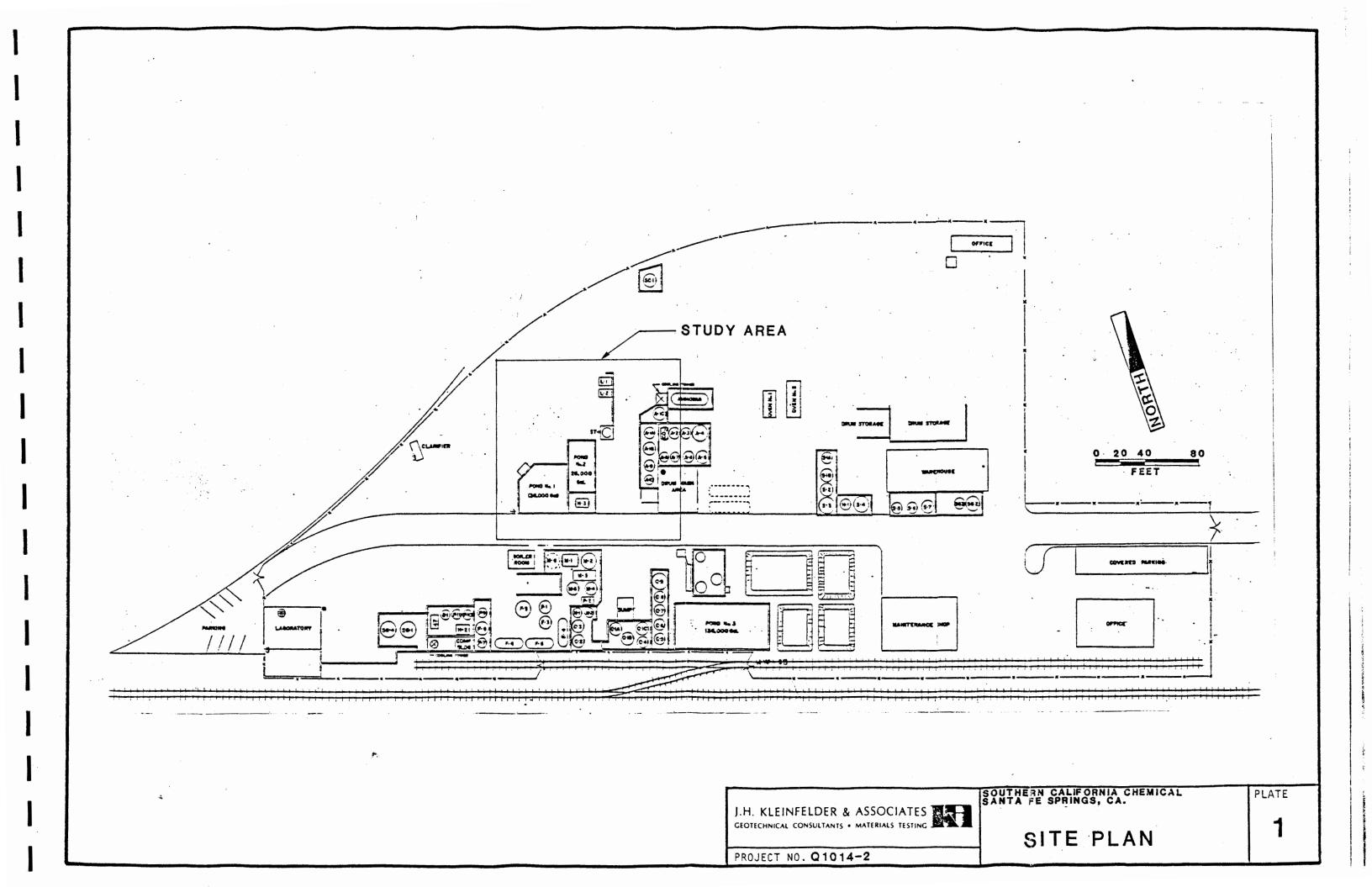
NOTES: MW 4 was sampled March 1985 per RCRA requirements. A complete list of the substances analyzed are included in the phase 1 report. MW 4A, 8, 9 and 10 were sampled August 1985 for the substances that are above drinking water standards in the March sampling and for the groundwater indicator parameters.

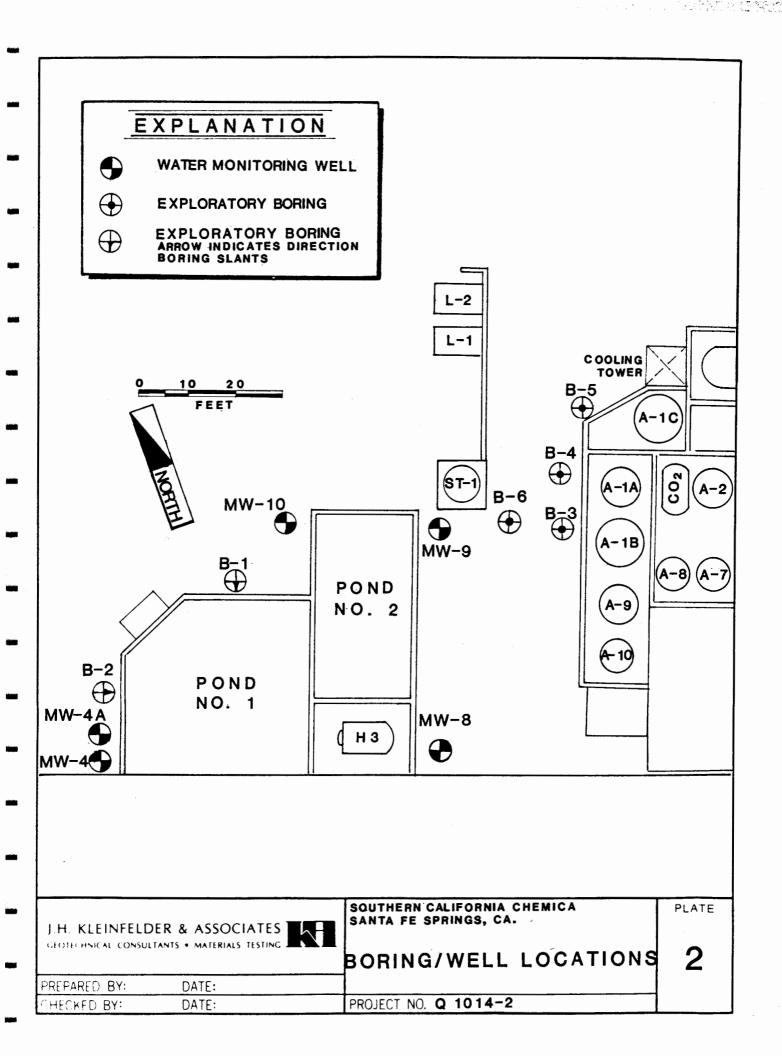
TABLE G
TABULATION OF WATER DATA

(mg/l)

			MG A
		DOHS	<u>MW 4</u> <u>B & C</u>
inion .	1,1 Dichloroethane	41	100
	l, Dichloroethylene	52	100
_	Benzene	· 3.7	ND 50
Various.	Carbon Tetrachloride		ND 50
	Chloraform	24	ND 50
	Ethylbenzene	2100	3000
i mara	Methylene Chloride	93	100
	Trichloroethylene	225	550
	Toluene	4500	8300
	trans-1, 2-Dichloroethylene	14	ND 50
***	Phenols	0.001	ND 50
-	Perchloroethylene		ND 50
_	1,2 dichloroethane	13	ND 50
-	Semi-quantified Xylene O-xylene N-P-xylene	1,100	10,000

NOTES: DOHS = Department of Health Services data B & C = Brown and Caldwell data





UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DI	IVISIONS	LTR	DESCRIPTION		VISIONS	LTR	DESCRIPTION
		G₩	Well-graded gravels or gravel sand mixtures, little or no fines.			ML	Inorganic silts and very fine sands, rock flour, silty or
COARSE GRAINED SOILS	GRAVEL AND	GP	Poorly-graded gravels or gravel sand mixture, little or no fines.		SILTS		clayey fine sands or clayey silts with slight plasticity.
	GRAVELLY	GН	Ity gravels, gravel-sand-clay xtures.		CLAYS LL<50	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
		GC	Clayey gravels, gravel-sand-clay mixtures.	FINE		OL	Organic silts and organic silt- clays of low plasticity
	SAND AND	sw	Well-graded sands or gravelly sands, little or no fines.	SOILS	SILTS AND CLAYS LL>50	нн	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
		SP	Poorly-graded sands or gravelly sands, little or no fines.	,		СН	Inorganic clays of high plasticity, fat clays.
	SANDY	SM	Silty sands, sand-silt mixtures.			ОН	Organic clays of medium to high plasticity.
		sc	Clayey sands, sand-clay mixtures.	HIGHLY ORGANIC SOILS		Pt	Peat and other highly organic soils.

Standard penetration split spoon sample

Modified California sampler

Shelby tube sample

Water level observed in boring

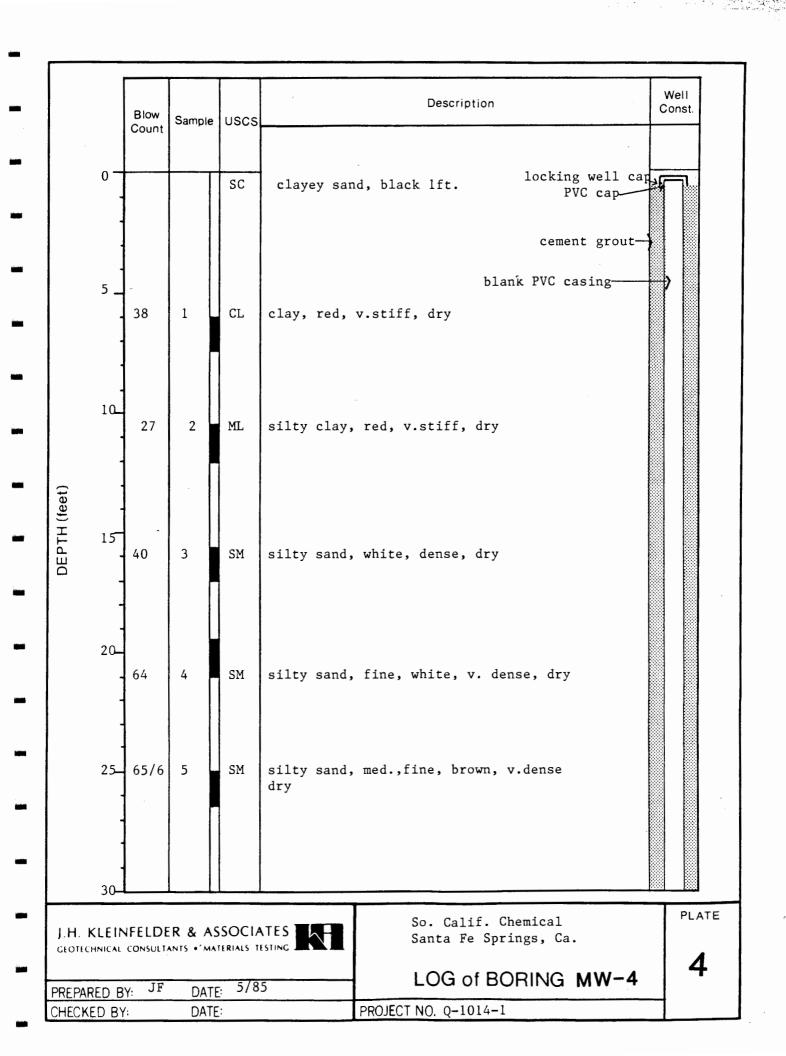
No recovery

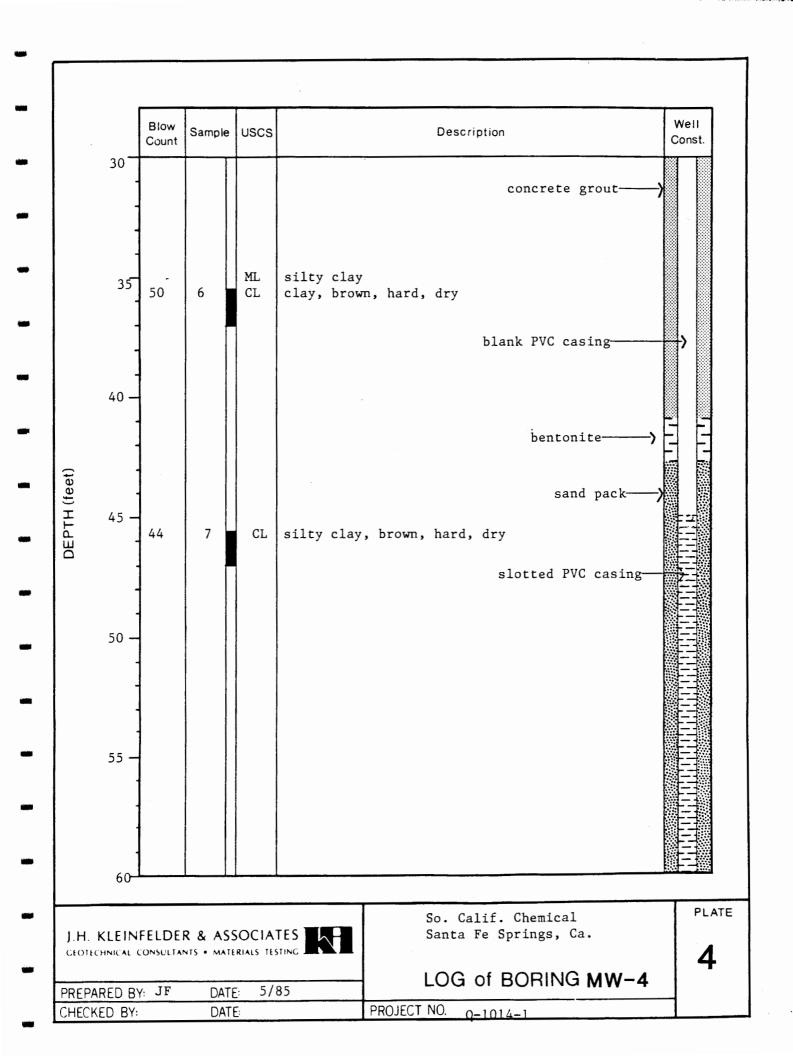
NFWE No free water encountered

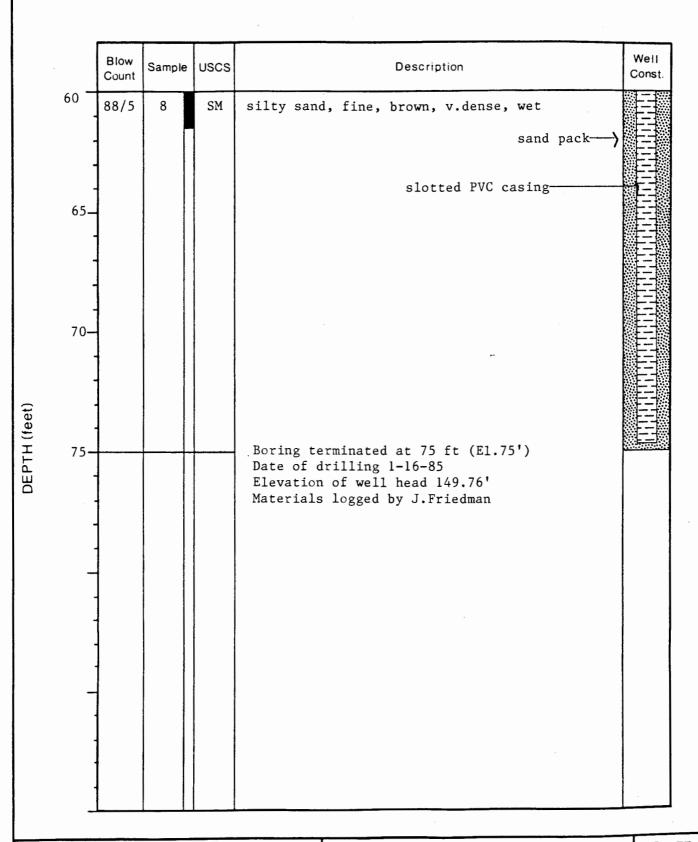
NOTE: The lines separating strata on the logs represent approximate boundaries only. The actual transition may be gradual. No warranty is provided as to the continuity of soil strata between borings. Logs represent the soil section observed at the boring location on the date of

drilling only.

.H. KLEINFELDER	& ASSOCIATES * MATERIALS TESTING	BORING LOG LEGEND	PLATE 3
TREPARED BY:	DATE:]
HECKED BY:	DATE:	PROJECT NO.	







J.H. KLEINFELDER & ASSOCIATES
GEOTECHNICAL CONSULTANTS • MATERIALS TESTING

PREPARED BY: JF

DATE: 5/85

DATE:

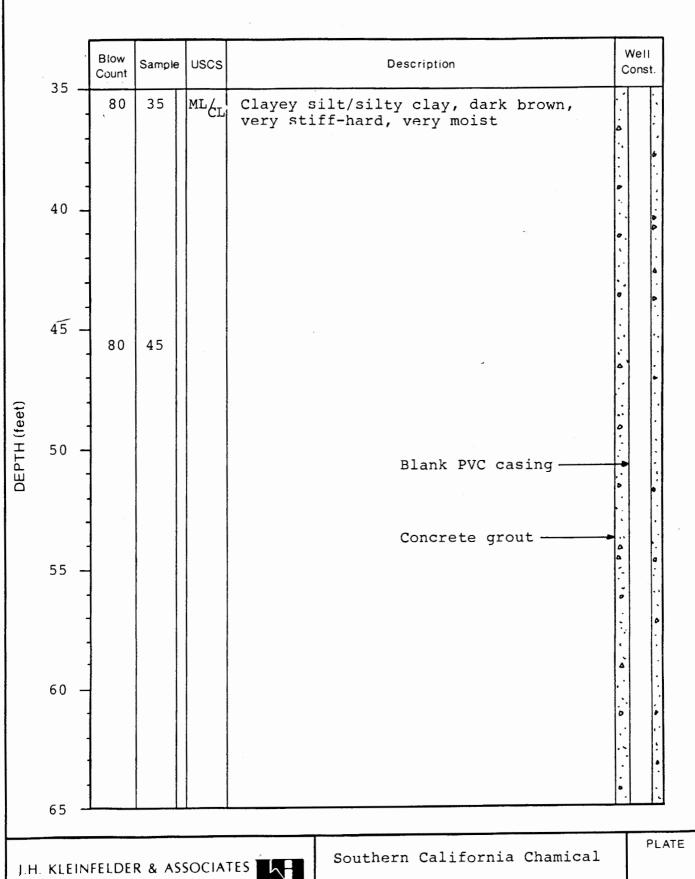
CHECKED BY:

So. Calif. Chemical Santa Fe Springs, Ca. PLATE

4

LOG of BORING MW-4

PROJECT NO. Q-1014-1



J.H. KLEINFELDER & ASSOCIATES

GEOTECHNICAL CONSULTANTS • MATERIALS TESTING

PREPARED BY:

CHECKED BY:

DATE:

PROJECT NO. Q-1014-2

	_	Blow Count	Sample	uscs	Description	Well Const
0	_				6" Concrete	17:
	-				Lock well cap	
	-				PVC cap	
5	-	10	5	ML	Silt with fine sand, brown, stiff, moist	
	-					0
10		23	10	MLŚP	Sandy silt/silty sand, brown, dense, moist	
15						
15	-	41	15	SP	Sand: medium - coarse sand, brown, very dense, dry	
					Blank PVC casing	
	•				Concrete grout	
20	-	66	20	SP	Sand, coarse to medium sand, light brown, very dense, dry-damp	
	•					3
25	-	98+	25	SP	Medium-coarse sand, light brown-tan, very dense, dry-moist	
30	_					ه ا ا

J.H. KLEINFELDER & ASSOCIATES
GEOTECHNICAL CONSULTANTS • MATERIALS TESTING

PREPARED BY:

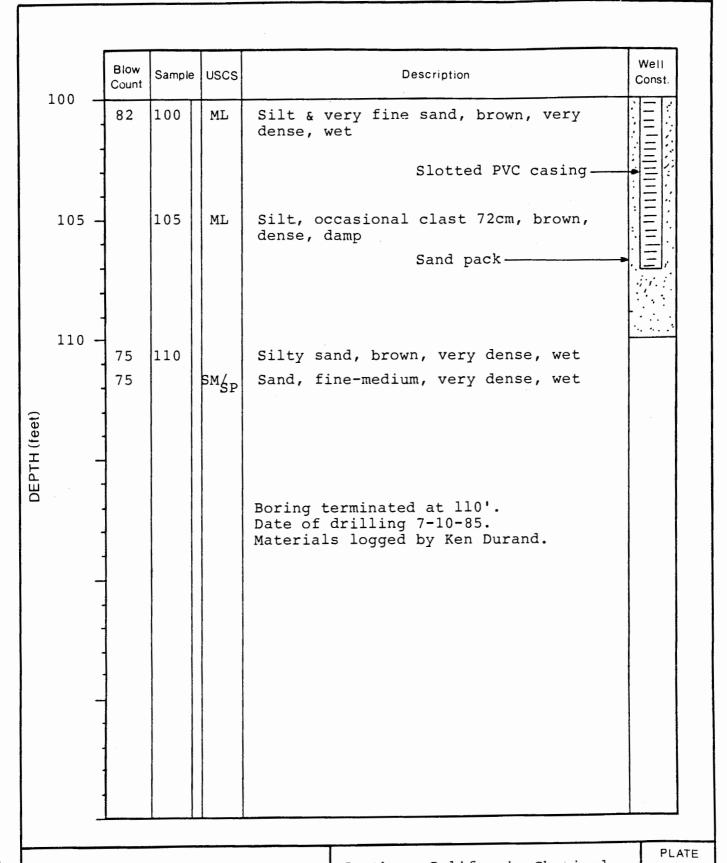
CHECKED BY:

DATE:

Southern California Chemical

LOG of BORING MW-4A

PROJECT NO. Q-1014-2



J.H. KLEINFELDER & ASSOCIATES
GEOTECHNICAL CONSULTANTS • MATERIALS TESTING

PREPARED BY:

CHECKED BY:

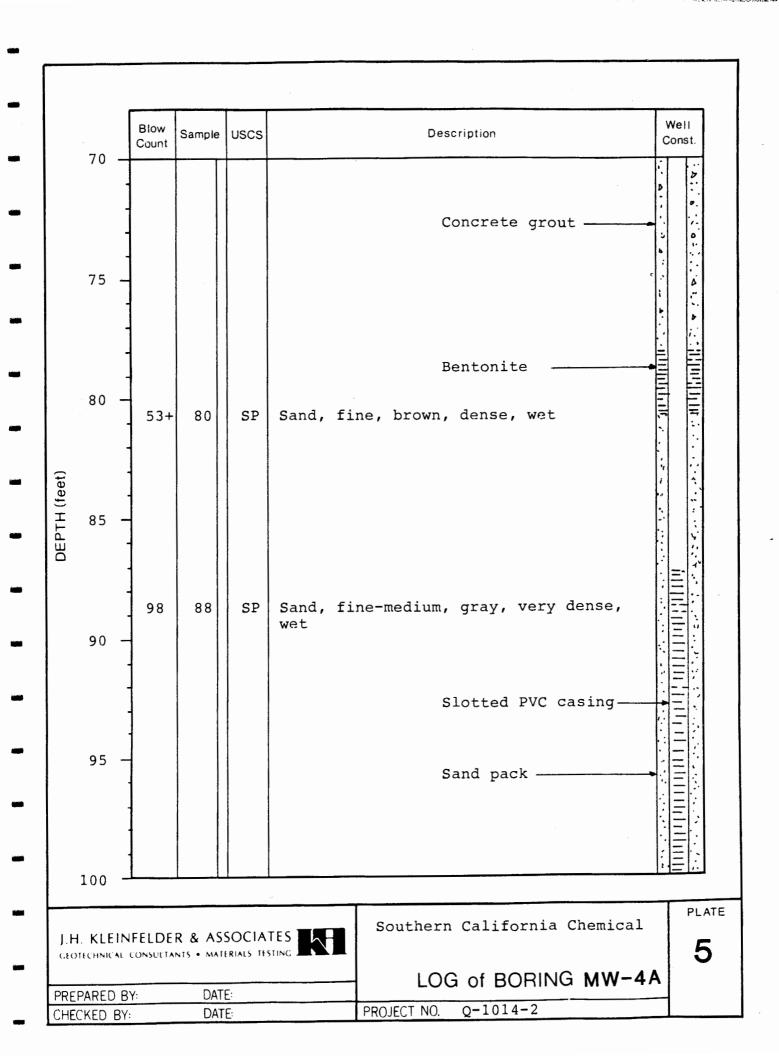
DATE:

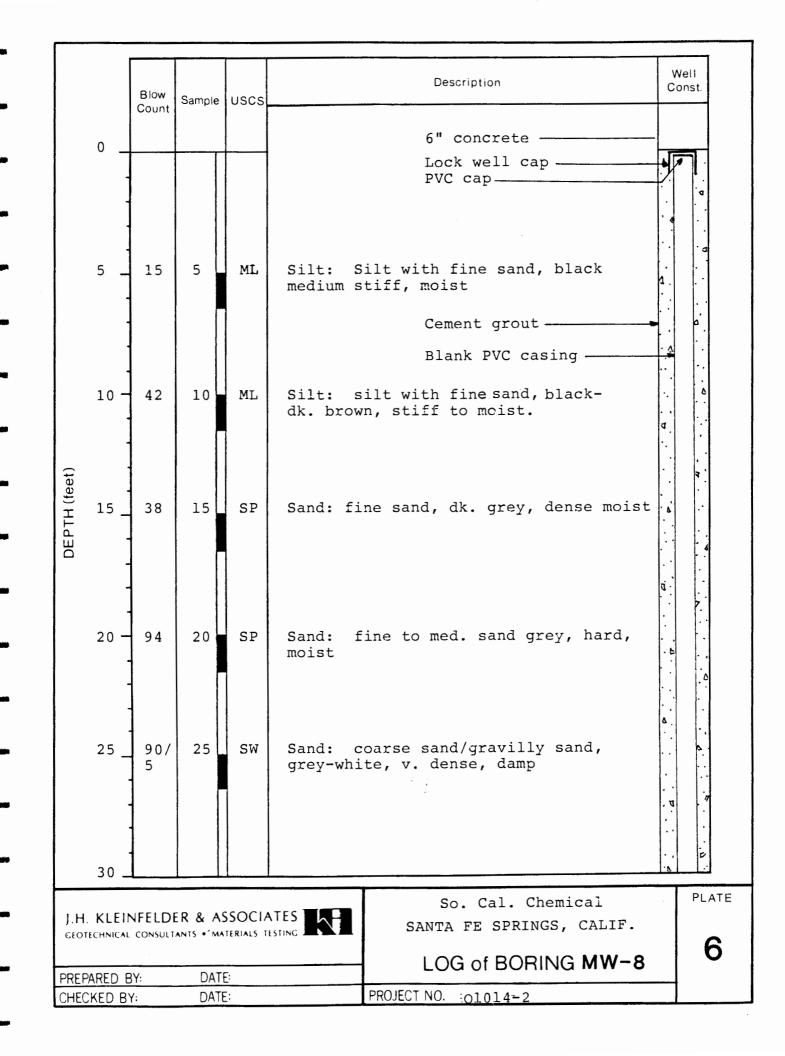
PROJECT NO. Q-1014-2

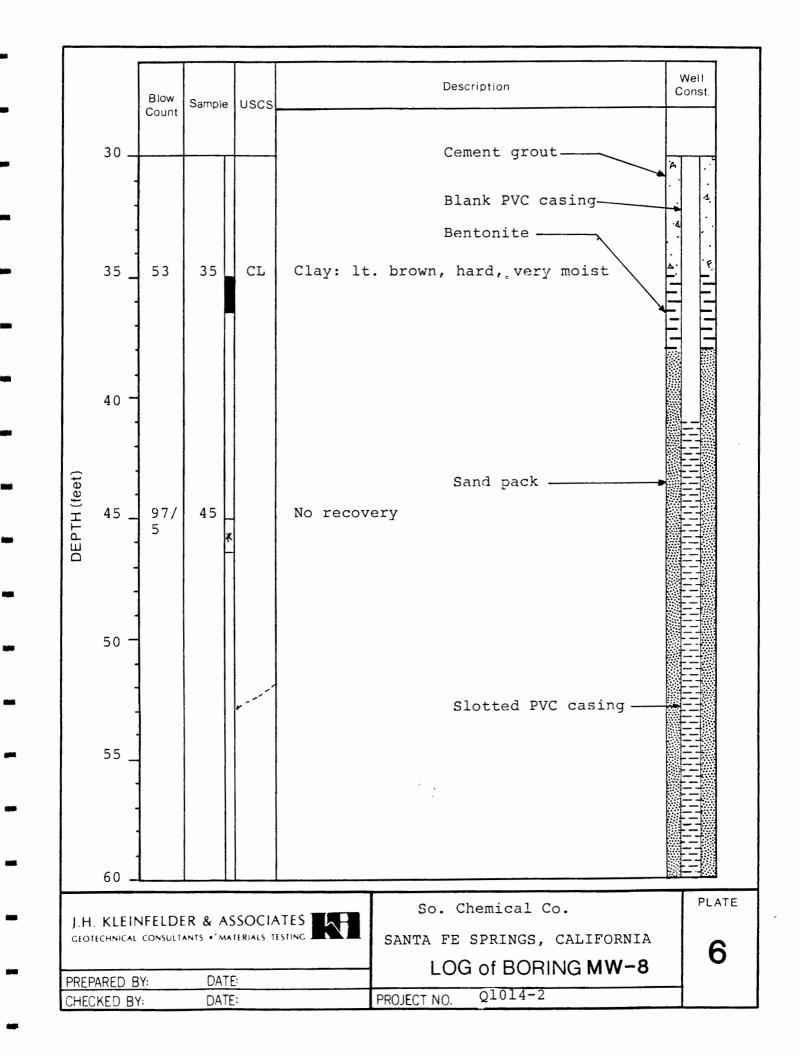
Southern California Chemical

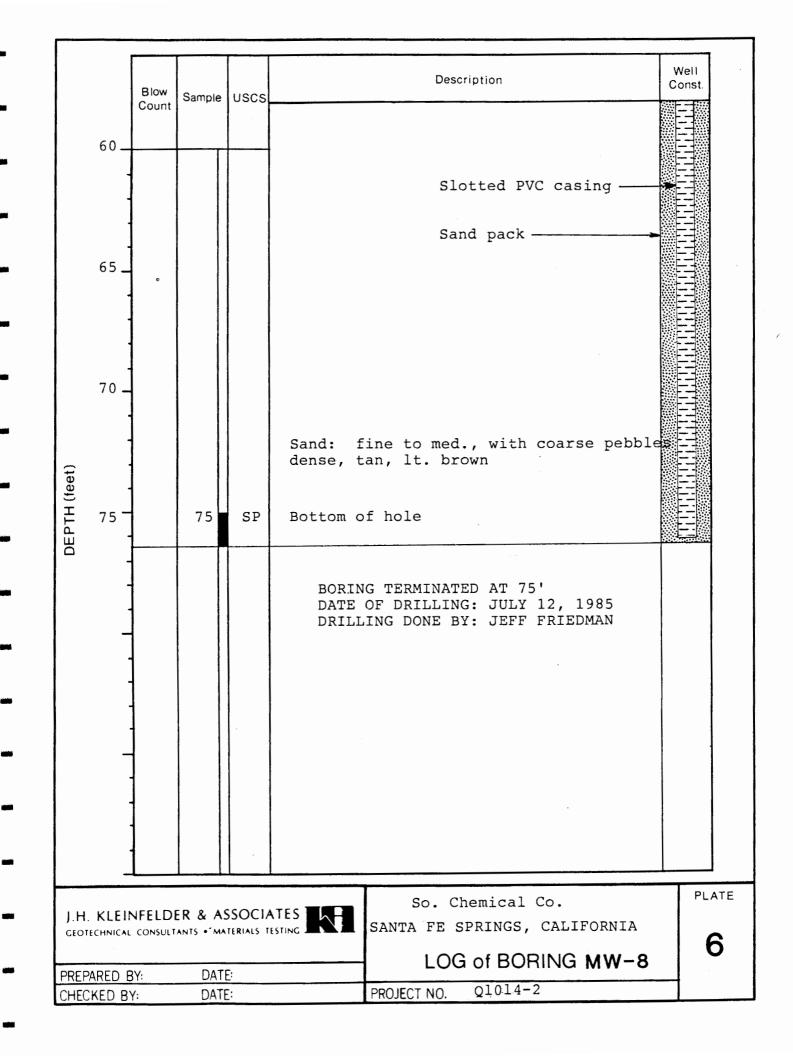
LOG of BORING MW-4A

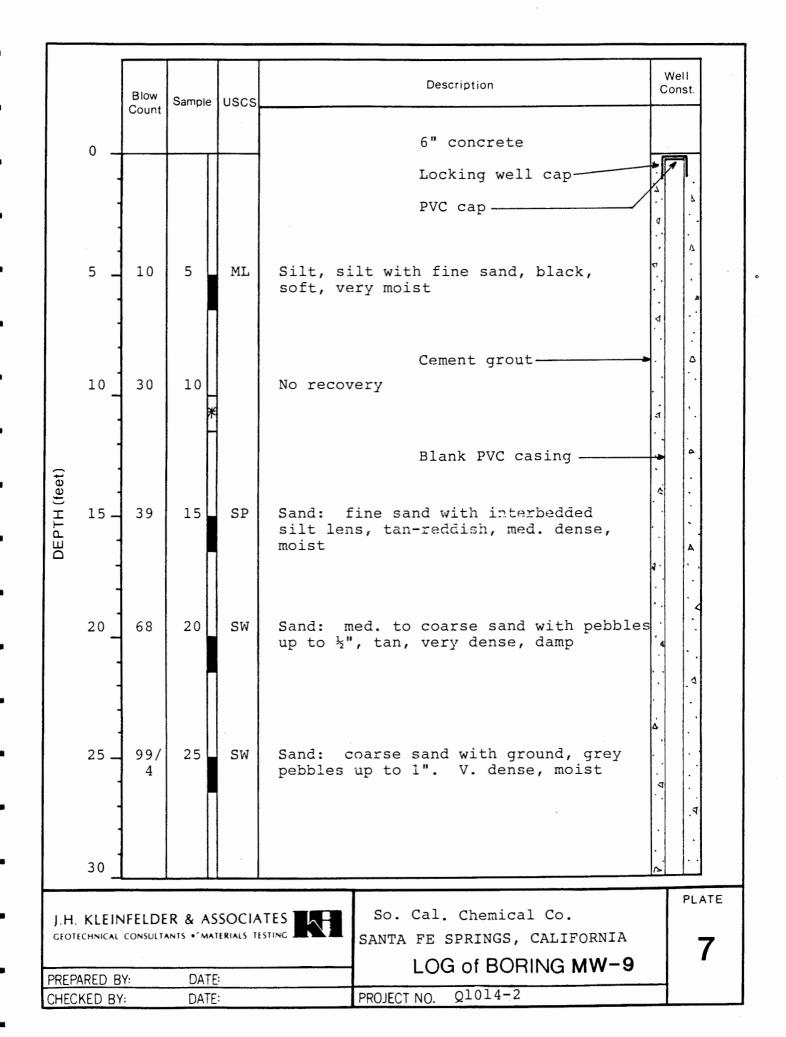
PROJECT NO. Q-1014-2

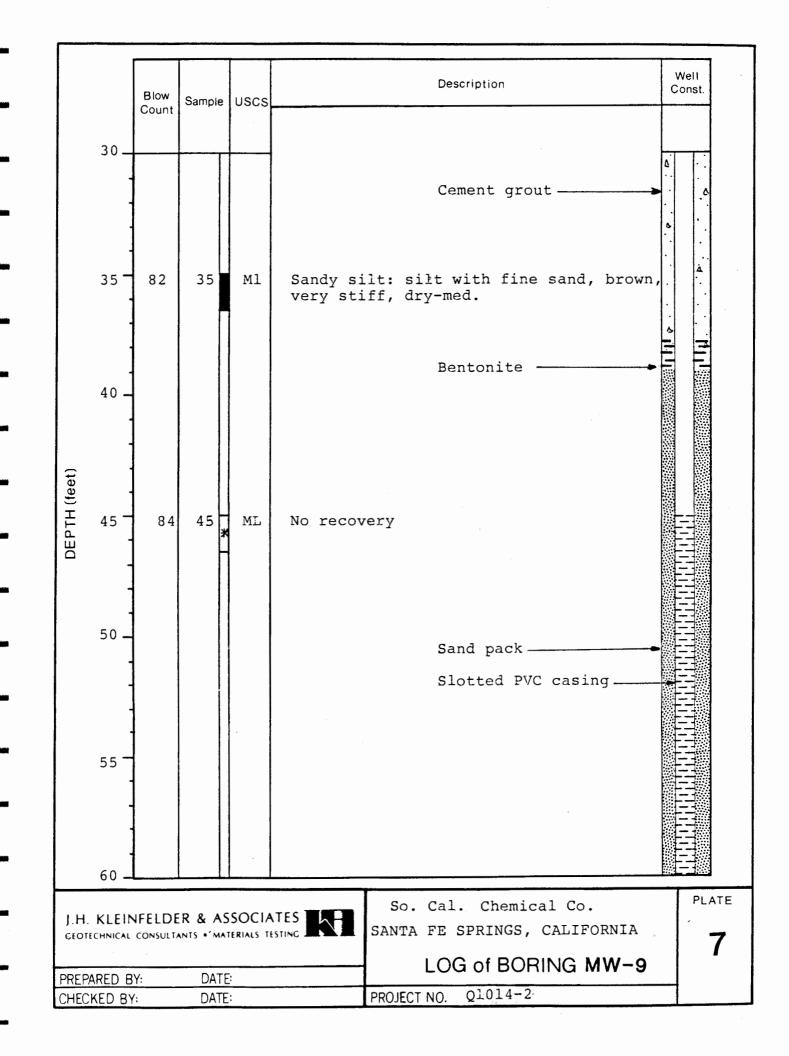


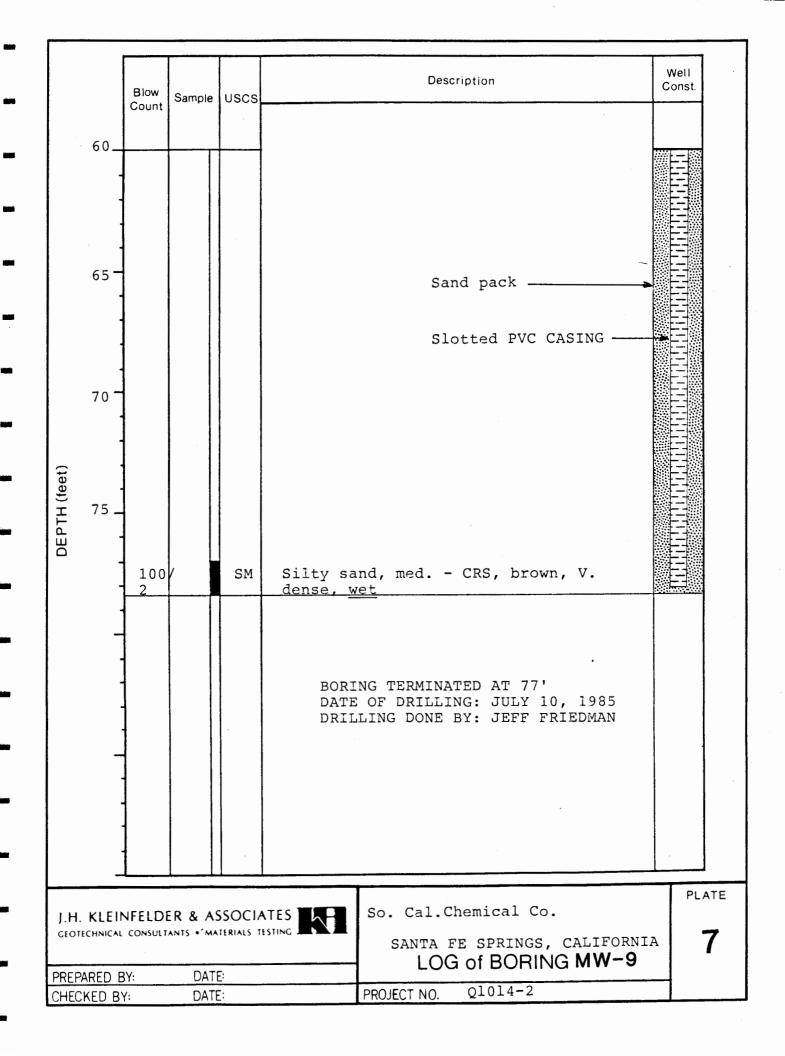


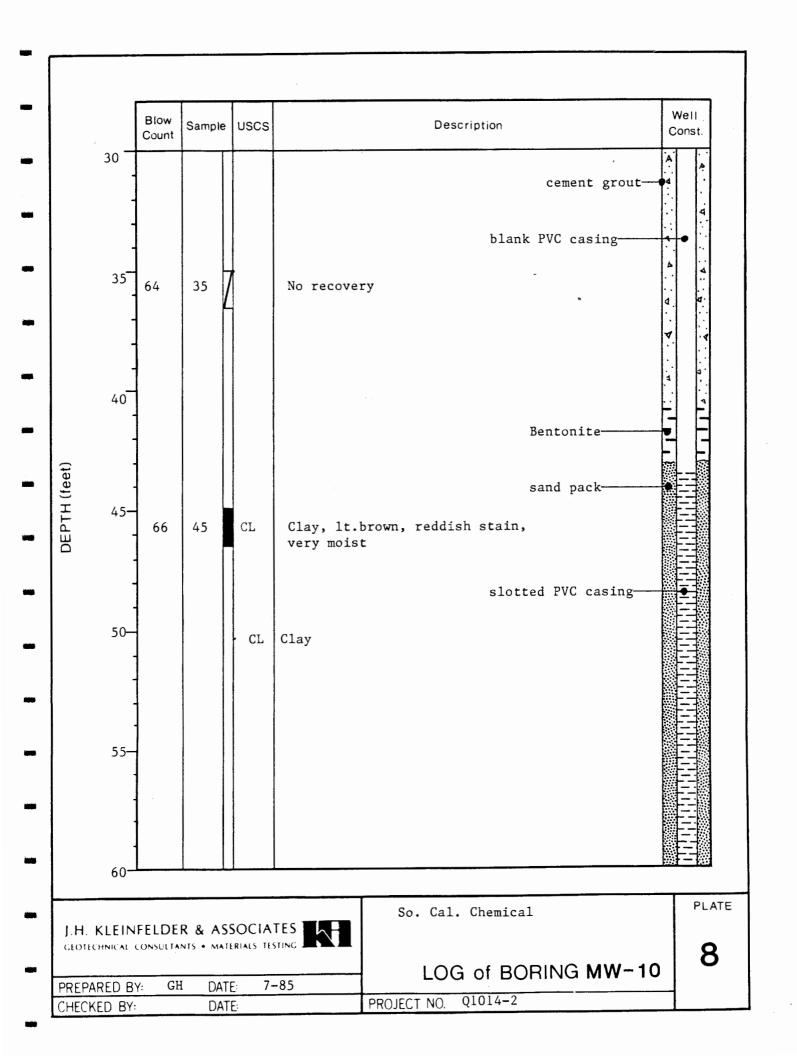


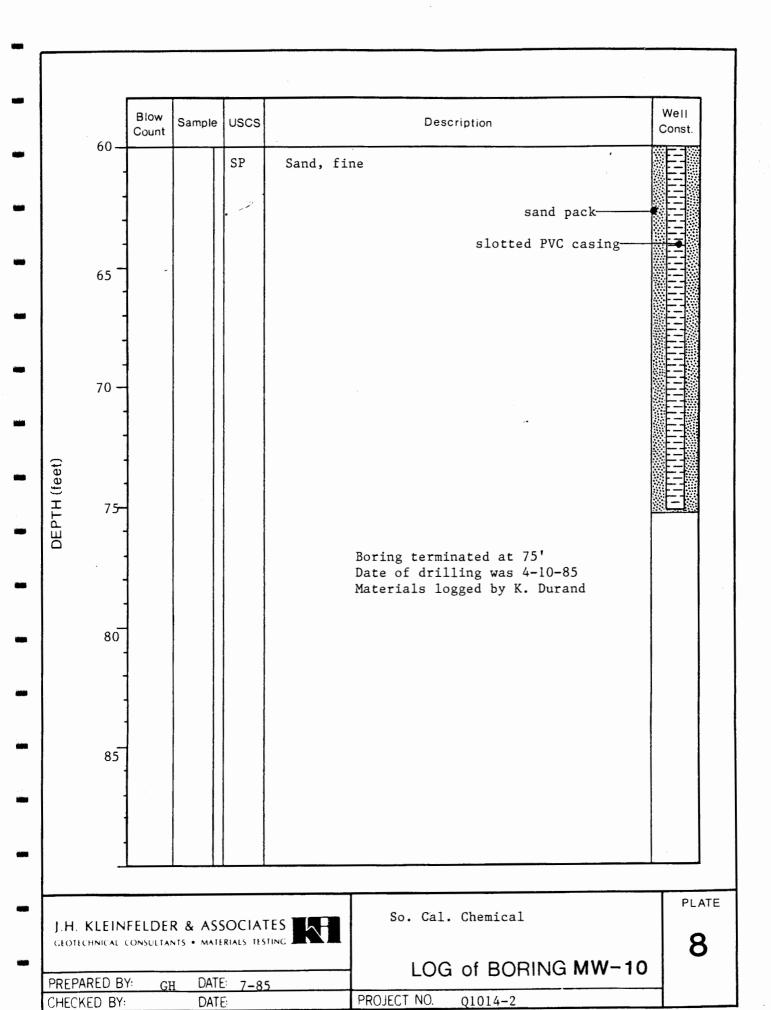


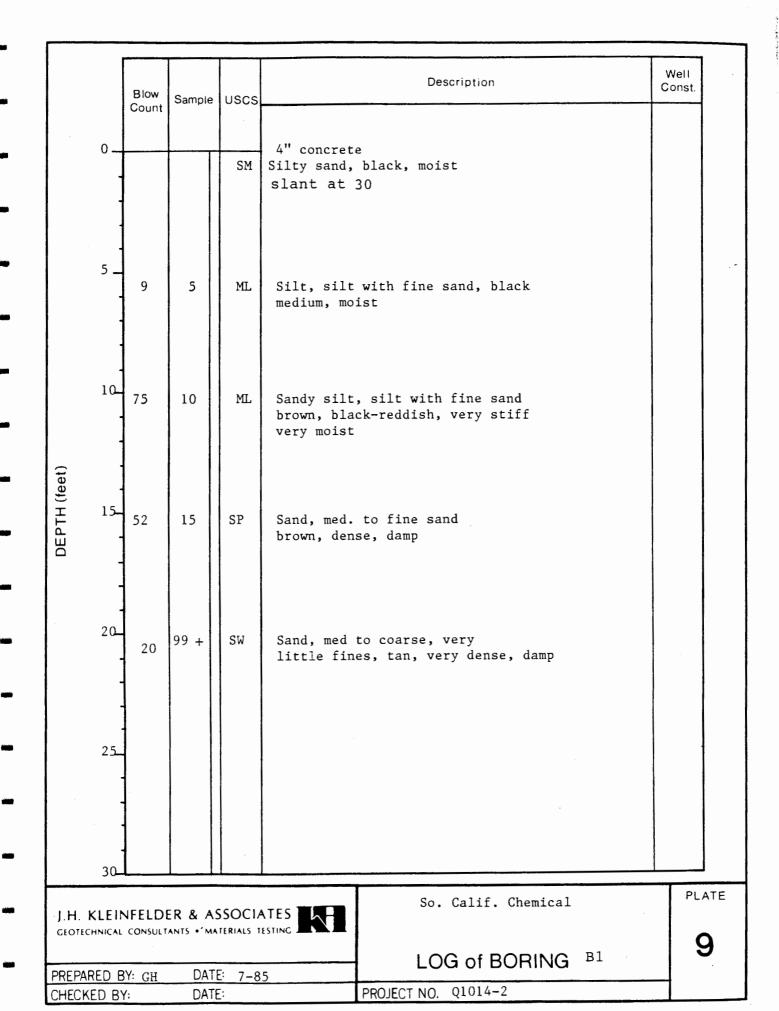












Blow Count	Sample	uscs	Description	Well Const.
80	30	SP	Sand med.to coarse sand tan, very dense, damp, only 3" sample	
5-			•	
78		ML	sandy silt, silt with fine sand drk.brn, very stiff, moist	
5				
82	50	CL	Clay,very stiff, brown-green, wet	
5-			Boring terminated at 50 feet Date of drilling was 7-9-85 Material logged by K. Durand	
	78	78 - 78 - 50 - 82 - 50	Count Sample USCS 80 30 SP 78 ML 55	Count Salinge USCS Sand med.to coarse sand tan, very dense, damp, only 3" sample 78 ML sandy silt, silt with fine sand drk.brn, very stiff, moist 82 50 CL Clay, very stiff, brown-green, wet Boring terminated at 50 feet Date of drilling was 7-9-85

		Blow Count	Sample	uscs	Description	Well Const.
	0 —	Count		·	6" concrete	
	•			SP	Slant at 28° Sand, fine sand black, moist	
•	5	39	5	ML/ CL	Silt/clay brown, very stiff, dry	
	10	78	10	CL	clay, brown clay very stiff - hard, damp	
DEPTH (feet)	15-	15	64	SP	Sand, med.sand, lt brown-tan very dense dry	
	20_	20	22	Sp	Sand, med. sand tan-red med. dense, dry	
	25	25	76		no recovery	
	30_					

	20	Blow Count	Sample	USCS	Description	Well Const.
•	30 -	99/3	30	SP ML	sand, med. to coarse sand lt.brown tan very dense dry Sandy silt, lt.brown-tan, very stiff moist	
	35	68	10	ML	clayey silt, silt with clay, tan-reddish stiff damp	
	40	96/4	40	CL	silty clay, very silty dark grey, moist	
DEPTH (feet)	45 -				Boring Terminated at 40 feet Date of drilling was 7-9-85 Materials logged by K. Durand	
	50					
	55 -					
	60					

		Blow Count	Sample	uscs	Description	Well Const.	
	0 -	Count			6" concrete		
	- -			SM	Silty sand, fine sand & silt with pebbles up to 3/4", damp		
	5 -	20	5	SM	Silty sand, fine sand and silt, med.dense damp, drk.brown		
(feet)	10	41	10	SM	Silty sand, fine sand and silt dense, moist drk.brown		
DEPTH (feet)	15 ·	52	15	SP	Sand, med. sand, tan, very dense, moist		
	20				Boring terminated at 15'. Date of drilling was 7/8/85. Materials logged by K. Durand.		
	36						

			Blow Count	Sample	uscs	Description	Weil Const.				
		0 -	Count								
		-			6" concrete SP Sand, med. sand with pebbles up to 3/8" brown, dry						
		5 -	33	5	ML	Silt with fine sand yellow stain, very stiff, dry					
		10	54	10	ML	Silt with fine sand, yellow-brown, very stiff, dry-damp					
OFDIH (foot)	חבו וו (ופפו)	15	71+	15	ML	Silt with fine sand, brown, very stiff, damp					
		20	100+	20	SP	Sand, med. to coarse sand with ½" rounded pebbles drk.brown-reddish very dense, damp					
		25 -	97	25	SP	Sand coarse to med.sand tan-grey, very dense damp					
		30-									
					·	So. Cal. Chemical	PL.	ATE			

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GEOTECHNICAL CONSULTANTS • MATERIALS TESTING

So. Cal. Chemical

LOG of BORING B-4

12

PREPARED BY: GH DATE: 7-85
CHECKED BY: DATE:

PROJECT NO. Q1014-2

		Blow Count	Sample	USCS	Description	Well Const.
	30 ⁻ -	88	30	ML SP	Silt & Sand, brown very dense, damp	
	- - -				Boring terminated at 30 feet Date of drilling was 7-9-85 Materials logged by K. Durand	
	- - -					
DEPTH (feet)	- -					
	- - -					
	- - -					

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So. Cal. Chemical

Q1014-2

PLATE

12

PREPARED BY: GH DATE: 7-85

CHECKED BY: DATE: PROJECT NO.

LOG of BORING B-4

		Blow Count	Sample	uscs	Description	Well Const.
	0				6" concrete	
	5 -	14	5	ML	Sandy silt: silt with fine sand, dark brown, med. stiff, moist	
	10	20	10	ML	Sand silt, silt with fine sand and clay, brown-reddish, stiff, dry	
DEPTH (feet)	15	31	15	ML Silt with clay, brown-reddish, stiff, damp		
	20	91/4	20	SP	Med.to fine sand, grey-brown, very dense damp	
	25	73	25	SW	gravelly sand, sand with pebbles up to $1\frac{1}{2}$ " dia. grey, hard, damp	
	30					

		Blow Count	Sample	uscs	Description	Well Const.
	30 -	91/5	30	SW	Sand- med. to coarse sand, grey very dense, moist/wet	
DEPTH (feet)					Boring Terminated at 30 feet Date of drilling was 7-12-85 Materials logged by K. Durand	

		Blow Count	Sample	uscs	Description	Well Const.
	30	57		ML	Sandy silt, silt with coarse sand very stiff moist, wet	
DEPTH (feet)					Boring terminated at 30 feet Date of drilling was 7-9-85 Materials logged by K. Durand	
	-					

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GEOTECHNICAL CONSULTANTS • MATERIALS TESTING

PREPARED BY: GH

CHECKED BY:

So. Cal. Chemical

PLATE

14

B-6

LOG of BORING 7-85 DATE DATE:

PROJECT NO. 01014 - 2

						Well	,
		Blow Count	Sample	uscs	Description	Const.	
		Count				-	
	0						
	j						
	•						
	•				_		
	5	14	5	ML CL	Silt/clay, yellow, soft, moist		
				CL			
	•						
	10	40	10		No recovery		
	-						
et)							
DEPTH (feet)	. =				·		
EPT	15	41	15	SP	Sand, fine sand with silt, brown reddish, very dense, dry		
	-				10dd10, 101/ 101/00 10/		
	_						
	20						
		70	20	SP	Sand, med. to coarse sand red-brown very dense moist, very little fine		
	-						
	25	93+	25	GP SW	Sandy gravel, gravely sand, rounded pebbles up		
	-			SW	to ½", very dense, damp		
	30_			<u> </u>			<u></u>
1					So. Cal. Chemical	PL	ATE

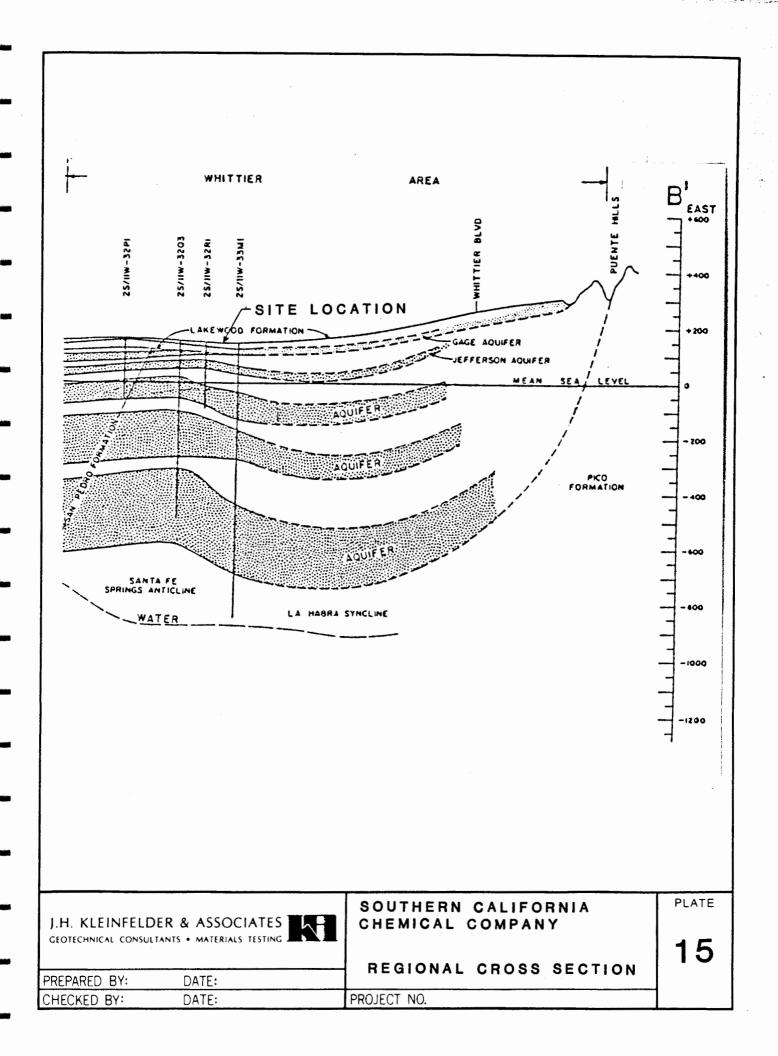
J.H. KLEINFELDER & ASSOCIATES GEOTECHNICAL CONSULTANTS "MATERIALS TESTING

So. Cal. Chemical

LOG of BORING B-6

PREPARED BY: DATE: 7-85 DATE: CHECKED BY:

PROJECT NO. Q1014-2



EXPLANATION **⊕** MW-11 MONITORING WELL ELEVATION (FEET ABOVE MEAN SEA LEVEL) OF GROUND WATER ON 9/20/85 GROUNDWATER CONTOUR LINE OF EQUAL ELEVATION ON 9/20/85) MW-11 105.03 OVER IL-2 104.87 MW-10 ... (H-3) MW-4A MW-8-104.78 € € € MW-4 104.50 POND N. 3 174,000 ea. MW-6A

J.H. KLEINFELDER & ASSOCIATES
GEOTECHNICAL CONSULTANTS • MATERIALS TESTING

SOUTHERN CALIFORNIA CHEMICAL SANTA FE SPRINGS, CA.

16

PLATE

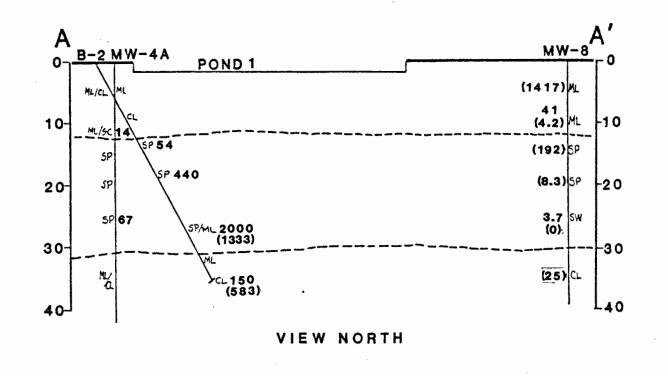
PROJECT NO. Q 1014-2

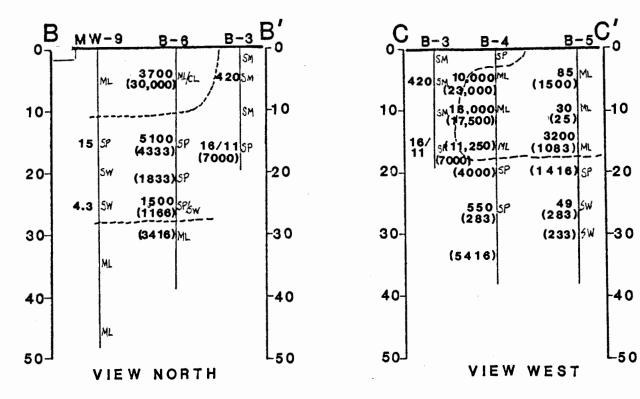
GROUNDWATER ELEVATION CONTOUR MAP SEPTEMBER 20, 1985

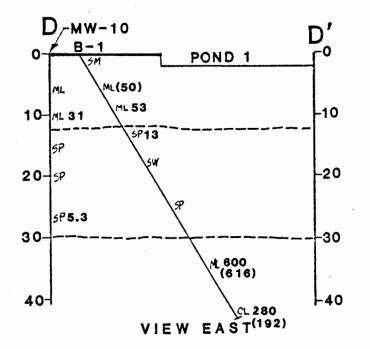
pH 13-14 Solution in Metals Precipitation Effluent Discharged to LACSD SCC Materials (Prior to Pretreat-Tank Prior Neutrali-(By Addition of Reducing Oxidation 22,000-27,000 and Quantity ment as Required by EPA & LACSD) to Treatment zation* Agent such as Sodium Sulfide) Solution After Precipitation if Needed pH above 6 (Cupric oxide CuO! 2 (Inad 3 vertent) Cupric sulfate solution CuSO₄ → CuS + (NH4)2504 &/or Na2504 16. Cupric chloride solution CuCl2-+ Na2S -> CuSI + NHaCl &/or NaCl Copper pyrophosphate solution -> 2CuS! Cu2P207 + Na₂S + (NH4)2HPO4 &/or Na2HPO4 :) 18. + Na₂S Cupric nitrate solution Cu (NO₃) 2 -- 3 --> CuS↓ + NaNO3 & for NH4NO3 12 Cu(OH)2 Cu(OH)2 Copper_hydroxide_solution Cuprous chloride solution CúC1 > CuS + NH4C1 &/or NaC1 16 217.0-100 Materials resulting from roadway Dirt Dirt H₂0 18 gpd cus. washdown; routine plant cleanup (w/ or w/d nis↓ ((incl. dirt); truck washing; Pbs L container & tank cleaning; drum (triple rinsing; cleanup of SnS↓ spills; rinse waters A: 50-100 Hydrogen peroxide l<u>f any fr</u> Sulfates 25 gpd, 27 or a ²⁵ need∳d B. As Chlorine (to kill free sulfides If any free sulfides Cla NaOC1 3: needed as needed) C. 0-50 Perchloric acid + HC104 -If any free sulfides NaCl + 34 gpd Builtup Precipitates in Bottom of Tanks 3.5% CuS; 3% NaCl; 2.5% Cr+S; *20% chromic-sulfuric acid soln in ס water, pH 0-1 (mixed with hi pH 3% metal hydroxide: 2% metal precipitate once every 30-60 [<90] sulfide; 2 7% FeS; 0.3% 2nS ➣ days; otherwise, stored in 0.5% other: 1% (NH4)2SO4 separate above-ground tank). 81% water. Hauled away to appropriate site or sold. *May add any of the neutralizing acids listed in this column. alone or in combinations, may contain metals *Prior to 1983, this material did not enter was dewater system at all. It was taken directly from tank straight to Class I site.

7

=			and the contraction of the contr									
1			pH 13-14 Solution in		Metals Precipitati	on I			, , , , , , , , , , , , , , , , , , , ,	10	Discharged	12
. !		SCC Materials (Prior to Pretreat-	Tank Prior Neutral	i –	(By Addition of Redu				Oxidation		. 000-27,000 g	4
	Quanti	ty ment as Required by EPA & LACSD)	to Treatmentzation	٠	Agent such as Sodium S	- 1	Solution After Precipitati	on	_if Needed		_pH_above 6	
	1.0-1000	(Ferric chloride solution, FeCl3	~8% FeOH			TI				TIT		
	2 gpd	(may contain metals such as Ni, Zn,		→	+ Na2S - FeOHL, PbS	I NISI.						
. 🕴	3	(Cr,Pb,Sn,As, etc., e.g.)	(as result		SnSt, Cr=S	ZnSL.						-j j -
-	4	\	of exposure		AsSt	+ NaC1		>				
. !_	2	(Ferrous chloride solution, FeCip	to hi pH	-		_ _ _		•		7-1-1		
	E	(same as above)	media)									
	7											
		00(10% sodium chloride solution	NaC1	+>	I		1	>			1 - 1 - 1	
	⁹ gpd				- - - - - - - -	:						
- }-	4.	(1-2% sodium hydroxide solution	Na OH>) + H2SO4	-	+ Na2S -> PbSl, AsSl	, FeSt_	+ (NH4)2504 &/or Na2504 -	>				
	<u>" </u>		} (w/ or w/c	o M)	1							
•	5.	(Residual sodium carbonate	NaCO3 + HC1	-	+ Na ₂ S -> TiSt, FeSt	, SnŞ↓	+ NH4C1 & or NaC1					>
			(w/.or w/c	o(M)	1 1-		I -					
	15	Ammonium hydroxide	$NH_4OH \longrightarrow $ $+ H_3PO_4$		+ Na ₂ S -> MS\$	-	+ (NH4)2HF04 8/or Na2HP04	>		 		_
	7.	<1% free ammonium chloride soln	NH ₄ C + HNO ₃	3 m)								
	17		(w/ or w/c	\ u,			+ NH4NO3 4/or NaNO3				-1	
	8.	<1% free ammonia + other water	NH3 + H20 Citric act	1 '	k		│					
	19) (w/ or w/	1	+ Na ₂ S -> MSJ	· ·	+ Ammonium citrate &/or sodium	citrate>			1-1-1	
: · ·	9.	Cupric ammonium chloride solution	Cu·2(NH3)· 2(NH4)Cl2	1,	+ Na ₂ S -> CuS		+ 2NH40H + 2NH4C1					
	21			1	1 2 2 3 3 3		2401		THE			>
1	0.0-2000	1-2% ammonium sulfate solution**	(NH ₄) ₂ SO ₄	 				-		- -		-
	23 g/mo											
	21									1-1 1-		
1	1.0-200	Ammonium bifluoride soln, NH4HF2	NH ₄ F>	>	+ Na2S - SnSt, PbSt	, cust	+ NH4F	>		2NH _A F	11-1	
	25 gpd	pH 3; w/Sn, Pb, Cu, etc.	(as result									
	27		of exposure							- - -		
٠.	26		to hi pH									1.
	29		media)								1 -	
-	33			_								-
. 1	2.0-100	Nickel sulfate solution	Nis04	→>	+ Na2S -> NIS	 >	+ (NH4)2S018/or Na2S04	>	1			
•	32 gpd					_ .						
	3.0-100	71				.		. 1				
		Zinc sulfate solution	ZnS04	 	+ Na ₂ S -> ZnS+	+>	+ (NH ₄) ₂ S0 ₄ &/or Na ₂ SO ₄		 			
	35 gpd	1	 	-		- -	 	- -	<u> </u>	<u> </u>		
•	밑				1		- - - - - - - - -	-	1			
	<u> </u>	*May add any of the neutralizing	holds listed a Alis		- - - -							
	AT	column, alone or in combinations				. -						1.
	Ħ↓	**Normally sold rather than discha					- - - - - - - - - - -	.	. .			
	111	The state of the s		-		- - -	1			+	 	
										1		
. •										- - *		
	. I			+					- - - - -	 - - 	 - -	1-1-1
	7		- was described in the contraction of	ntrus	- <u>4</u> 4		ر على المراجعة المرا		. <u> </u>	 	<u> </u>	ا حاصيا
		,										







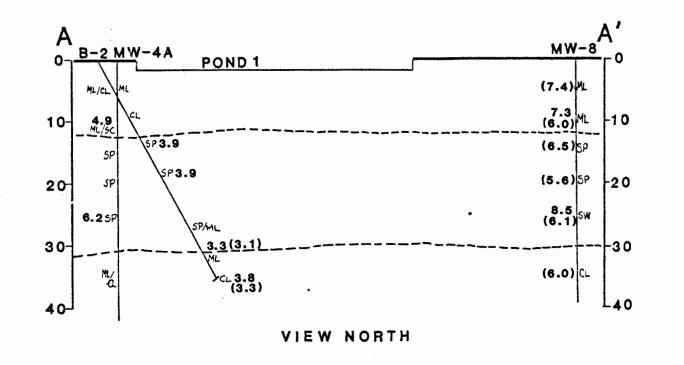
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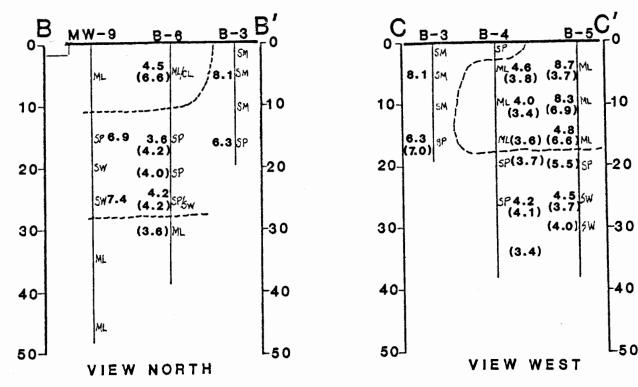
10,000 SAMPLE ANALYZED AT LABORATORY OF BROWN & CALDWELL

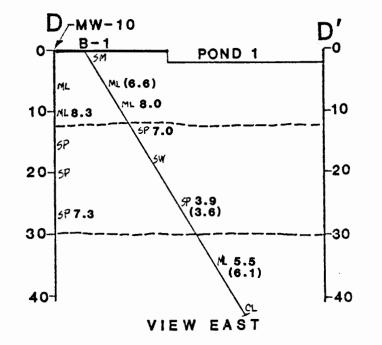
(23,000) SAMPLE ANALYZED AT LABORATORY OF SOUTHERN CALIFORNIA CHEMICAL

18

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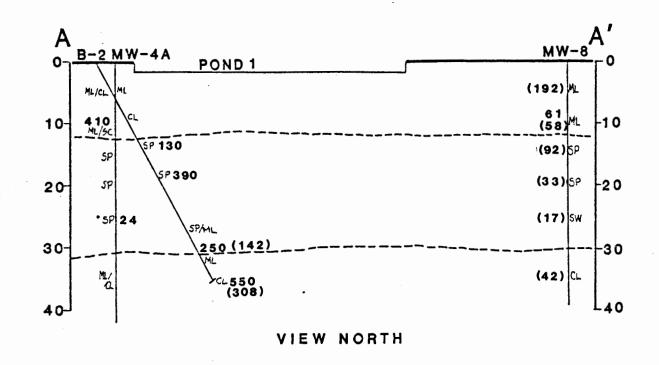
SCALE: 1''= 16'

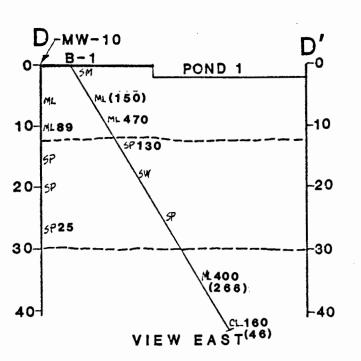
SAMPLE ANALYZED AT LABORATORY OF BROWN & CALDWELL (4.2) SAMPLE ANALYZED AT LABORATORY OF SOUTHERN CALIFORNIA CHEMICAL

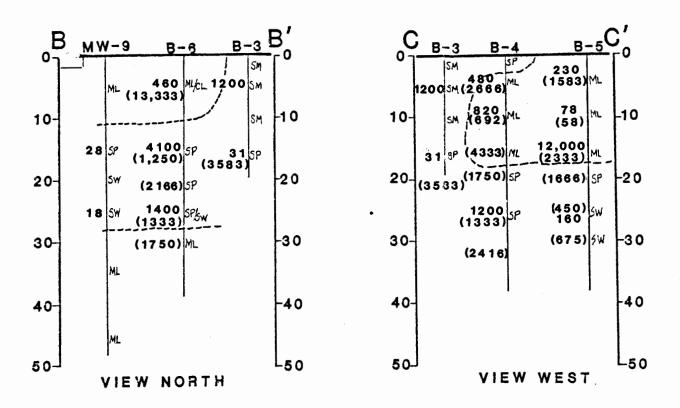
-40

L50

PLATE



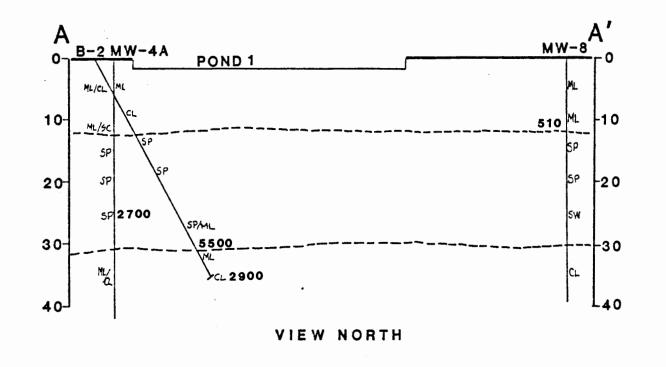


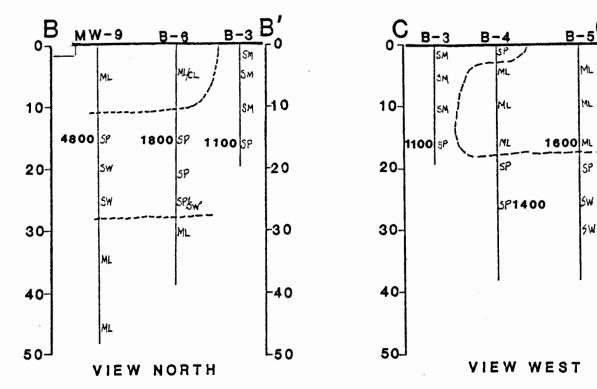


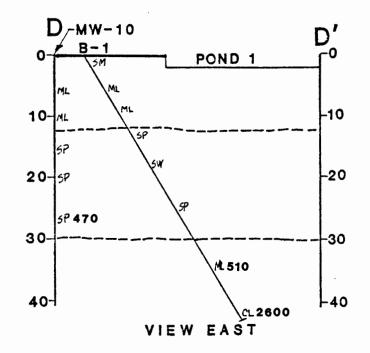
SCALE: 1'' = 16'

- 450 SAMPLE ANALYZED AT LABORATORY OF BROWN & CALDWELL
- (17) SAMPLE ANALYZED AT LABORATORY OF SOUTHERN CALIFORNIA CHEMICAL

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SCALE: 1" = 16"

PLATE

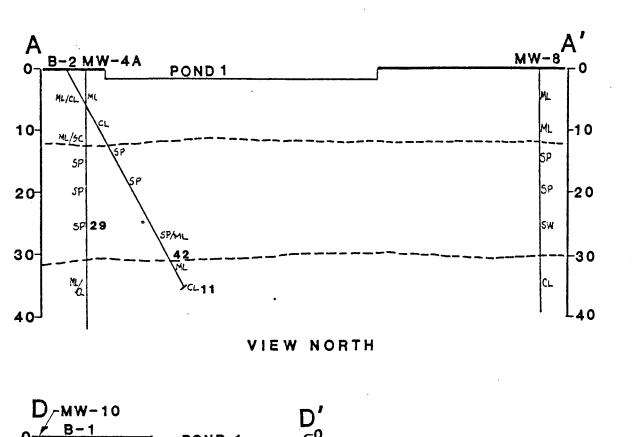
ML -10

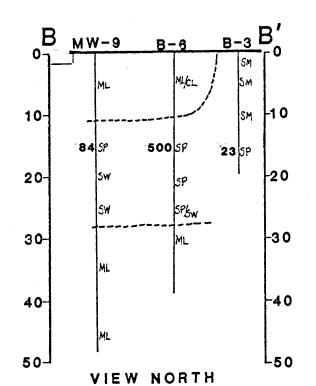
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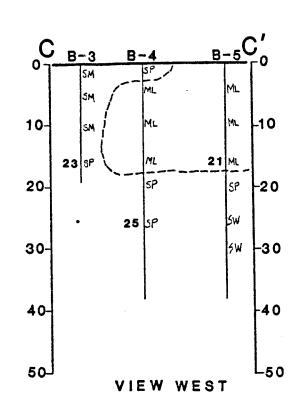
5W -30

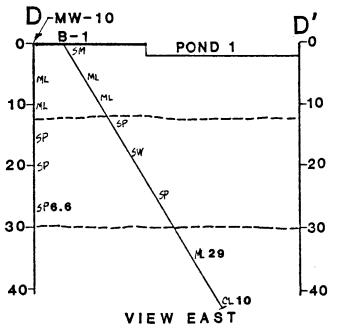
40

L50

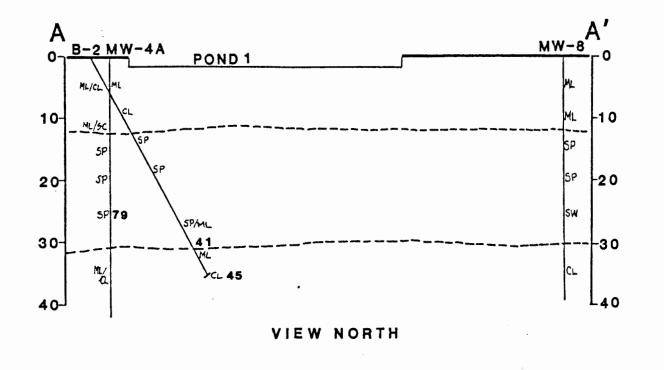


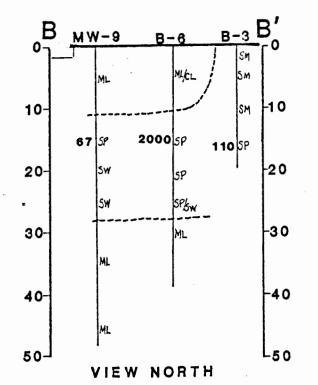


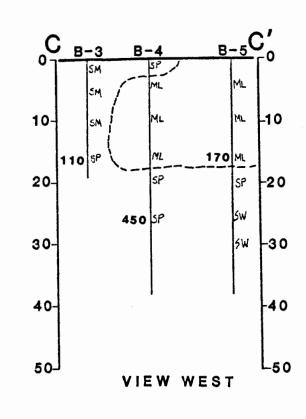


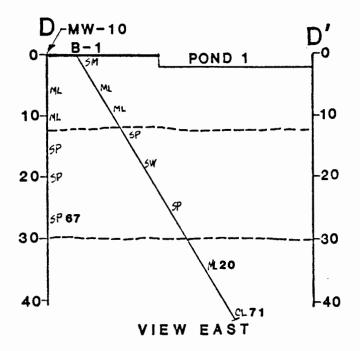


SCALE: 1" = 16"









SCALE: 1" = 16"

J. H. KLEINFELDER & ASSOCIATES

APPENDIX A



Received: 24 JUL 85 Reported: 19 AUG 85

Ken Durand J.H. Kleinfelder & Assoc. 901 W. Victoria St., Suite G Compton, CA 90220

Project: Q-1014-2

LOG NO	SAMPLE DESCRIPTION,	AQUEOUS S	AMPLES			DA	ATE SAMPLEI
07-363-1 07-363-2 07-363-3 07-363-4 07-363-5 07-363-6	W-00-137/W-00-138 Q- W-02-140 Q-1014-2 W-05-144/W-05-145 Q- W-04-146/W-04-147 Q- W-00-149/W-00-150 Q- W-03-152/W-03-153 Q-	-1014-2 -1014-2 -1014-2		24 JUL 8 24 JUL 8 24 JUL 8 24 JUL 8 24 JUL 8 24 JUL 8			
PARAMETER		07-363-1	07-363-2	07-363-3	07-363-4	07-363-5	07-363-€
Extraction 1,1-Dichlo 1,1-Dichlo Acrolein, Acrylonith Benzene, u Carbon Tet Chloroform Ethylbenze Methylene Trichloroe Toluene, u trans-1,2-	oroethane, ug/L oroethylene, ug/L ug/L rile, ug/L ug/L trachloride, ug/L ene, ug/L chloride, ug/L	08/07/85 <1 <10 <10 <10 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	08/07/85 4 3 <10 <10 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	08/07/85 <1 <10 <10 <5 3 2 <1 <1 10 1 <1 <1	08/07/85 100 100 <500 <500 <50 <50 3000 100 550 8300 <50 <50	08/07/85 <1 <10 <10 <14 <1 <1 <1 16 <1 13 <1	08/07/85 6 14 (10 (10 5 73 46 (1 320 2 1
- Pollutant	-	`•	`•	`•	, 50	`-	

Received: 24 JUL 85 Reported: 19 AUG 85

Ken Durand J.H. Kleinfelder & Assoc. 901 W. Victoria St., Suite G Compton, CA 90220

Project: Q-1014-2

LOG NO	SAMPLE DESCRIPTION	N, AQUEOUS S	AMPLES			DA	TE SAMPLEI
07-363-1 07-363-2 07-363-3 07-363-4 07-363-5 07-363-6	W-00-137/W-00-138 W-02-140 Q-1014-2 W-05-144/W-05-145 W-04-146/W-04-147 W-00-149/W-00-150 W-03-152/W-03-153	Q-1014-2 Q-1014-2 Q-1014-2					24 JUL 85 24 JUL 85 24 JUL 85 24 JUL 85 24 JUL 85 24 JUL 85
PARAMETER		07-363-1	07-363-2	07-363-3	07-363-4	07-363-5	07-363-6
Xylene I	tified Results ** somers, ug/L ification based upo	 n comparison	of total i	 on count of	10,000	 nd With	
	the nearest interna				-		

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Project: Q-1014-2

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES		DATE SAMPLED	
7-363-7	W-02-142 Q-1014-2		24 JUL 85	
PARAMETER		07-363-7		
	ng/L Digestion, Date Chromium, mg/L	<0.033 07/25/85 <0.033		

Received: 24 JUL 85 Reported: 19 AUG 85

Ken Durand
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901 W. Victoria St., Suite G
Compton, CA 90220

Project: Q-1014-2

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES		DATE SAMPLED	
)7-363-8	W-04-148 Q-1014-2	24 JUL 85		
PARAMETER		07-363-8		
<pre>mlexavalent Nitrate Nit</pre>	g/L Digestion, Date Chromium, mg/L trogen as NO3), mg/L	550 0.92 07/25/85 500 55 12		

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Reported: 19 AUG 85

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Project: Q-1014-2

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOU	S SAMPLES	DATE SAMPLED
 7−363−9	W-03-154 Q-1014-2	·	24 JUL 85
'ARAMETER		07-363-9	
		<0.011 <0.033 07/25/85 <0.033	·

Edward Wilson, Laboratory Director

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LOG NO: P85-08-042

SEP 06 1985

Received: 02 AUG 85 Reported: 03 SEP 85

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Ken Durand J. H. Kleinfelder & Associates 901 W. Victoria Street, Suite G Compton, California 90220

Project: Q-1014-2

L_3 NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLE	S	DATE SAMPLED
08-042-1	W-00-155thru158 Q-1014-2		02 AUG 85
PARAMETER		08-042-1	
TOC, 1st F OC, 2nd F TOC, 3rd F		<3.0 0.0 <3.0 <3.0 <3.0 <3.0	

Received: 02 AUG 85 Reported: 03 SEP 85

Ken Durand J. H. Kleinfelder & Associates 901 W. Victoria Street, Suite G Compton, California 90220

Project: Q-1014-2

LOW NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES			DA	ATE SAMPLED
06_042-3	W-07-159thru173 Q-1014-2 W-09-189thru203 Q-1014-2 W-11-174thru188 Q-1014-2				02 AUG 85 02 AUG 85 02 AUG 85
PA AMETER		08-042-2	08-042-3	08-042-4	
Chloride, m He avalent Nicate Nit Nitrate (a Nitrate (a Qualruplica Sp. Cond., Sp. Cond., Sp. Cond., Sp. Cond., Sp. Cond.,	ng/L pigestion, Date ng/L Chromium, mg/L	<0.03 08/06/85 380	2200 2200 2200 2200 2200	(0.03 08/06/85 220 (0.5 5.2 1.2 1600 43 1600 1700	

Received: 02 AUG 85 Reported: 03 SEP 85

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Project: Q-1014-2

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	D#	ATE SAMPLED		
08-042-3	W-07-159thrul73 Q-1014-2 W-09-189thru203 Q-1014-2 W-11-174thrul88 Q-1014-2				02 AUG 85 02 AUG 85 02 AUG 85
PARCAMETER		08-042-2	08-042-3	08-042-4	
F", 1st Re F, 2nd Re pH, 3rd Re pH, 4th Re Qu druplica TeC, Avera ToC, Stand T C, 1st R TLC, 2nd R TOC, 3rd R	e, Units ord Deviation, Units eplicate, Units	0.04 6.4 6.3	6.4 6.4	0.04 6.6 6.7 6.6	

A-9

Received: 02 AUG 85 Reported: 03 SEP 85

Ken Durand J. H. Kleinfelder & Associates 901 W. Victoria Street, Suite G Compton, California 90220

Project: Q-1014-2

REPORT OF ANALYTICAL RESULTS

L^3 NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED			
08-042-2 08-042-3 0 -042-4	W-07-159thru173 Q-1014-2 W-09-189thru203 Q-1014-2 W-11-174thru188 Q-1014-2				02 AUG 85 02 AUG 85 02 AUG 85
PARAMETER		08-042-2	08-042-3	08-042-4	
TOX, 2nd R DX, 3rd R TOX, 4th R TOX, Avera	eplicate, mg/L eplicate, mg/L eplicate, mg/L eplicate, mg/L	0.069 0.10 0.091 0.063 0.081 0.018	0.11 0.12 0.13 0.15 0.13 0.017	<0.05 <0.05 <0.05 0.098 0.062 0.024	

Edward Wilson, Laboratory Director

BROWN AND CALDWELL

ANALYTICAL LABORATORIES
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LOG NO: P85-08-064

Received: 05 AUG 85 Reported: 03 SEP 85

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Ken Durand J. H. Kleinfelder & Associates 901 W. Victoria Street, Suite G Compton, California 90220

Project: Q1014-2

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES			DA	TE SAMPLED
08-064-1 08-064-2 0 -064-3 0064-4	W-00-204thru218 Q1014-2 W-00-264thru278 Q1014-2 W-4A-249thru263 Q1014-2 W-08-234thru248 Q1014-2				05 AUG 85 05 AUG 85 05 AUG 85 05 AUG 85
P RAMETER		08-064-1	08-064-2	08-064-3	08-064-4
	mg/L Digestion, Date Chromium, mg/L	<0.01 <0.03 08/06/85 <0.5	<0.01 <0.03 08/06/85 <0.5	<0.01 <0.03 08/06/85 <0.5	<0.01 <0.03 08/06/85 <0.5
	as NO3), mg/L as N), mg/L ate pH:	9.3 2.1	0.10 0.44	20 4.5	5.8 1.3
i, Avera i, Stand pH, 1st R -4, 2nd R i, 3rd R	ge, Units ard Deviation, Units eplicate, Units eplicate, Units eplicate, Units eplicate, Units eplicate, Units	5.6 0.0 5.6 5.6 5.6	4.2 0.0 4.2 4.2 4.2 4.2	6.8 0.05 6.8 6.8 6.7 6.8	

Received: 05 AUG 85 Reported: 03 SEP 85

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Compton, California 90220

Project: Q1014-2

I G NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES			DA	TE SAMPLED
08-064-1 08-064-2 (-064-3 (-064-4	W-00-204thru218 Q1014-2 W-00-264thru278 Q1014-2 W-4A-249thru263 Q1014-2 W-08-234thru248 Q1014-2				05 AUG 85 05 AUG 85 05 AUG 85 05 AUG 85
I RAMETER		08-064-1	08-064-2	08-064-3	08-064-4
p. Cond., p. Cond., Sp. Cond., Sp. Cond., p. Cond., Quadruplica		52 0 52 52 52 52 52	190 5 190 180 180 190	1500 47 1500 1500 1400 1500	2800 43 2800 2800 2800 2700
TOC, 1st F TOC, 2nd F OC, 3rd F	age, mg/L dard Deviation, mg/L Replicate, mg/L Replicate, mg/L Replicate, mg/L Replicate, mg/L	(3 0 (3 (3 (3 (3	(3) (3) (3) (3) (3)	40 3.8 38 37 46 40	99 3.5 99 96 103 99

Received: 05 AUG 85 Reported: 03 SEP 85

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Compton, California 90220

Project: Q1014-2

TOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES			DA'	TE SAMPLED
₩8-064-1 08-064-2 8-064-3 ■8-064-4	W-00-204thru218 Q1014-2 W-00-264thru278 Q1014-2 W-4A-249thru263 Q1014-2 W-08-234thru248 Q1014-2				05 AUG 85 05 AUG 85 05 AUG 85 05 AUG 85
ARAMETER		08-064-1	08-064-2	08-064-3	08-064-4
TOX, 2nd R TOX, 3rd R TOX, 4th R TOX, Avera	eplicate, mg/L eplicate, mg/L eplicate, mg/L eplicate, mg/L	(0.05 (0.05 (0.05 (0.05 (0.05 0.0	<0.05 0.052 <0.05 <0.05 0.051 0.001	<0.05 <0.05 <0.05 <0.05 <0.05 0.05	0.53 0.16 0.27 0.79 0.44 0.28

Received: 05 AUG 85 Reported: 03 SEP 85

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Compton, California 90220

Project: Q1014-2

ing No	SAMPLE DESCRIPTION, AQUEOUS SAMPI	DATE SAMPLED		
08-064-5	W-10-219thru233 Q1014-2	05 AUG 85		
RAMETER		08-064-5		
Cadmium, m		<0.01		
iromium,	mg/L	<0.03		
ssolved	Digestion, Date	08/06/85		
Hexavalent	Chromium, mg/L	<0.5		
Nitrate Ni	itrogen			
litrate ((as NO3), mg/L	<0.44		
	(as N), mg/L	<0.10		
Quadruplic	cate pH:			
⊃H, Avera	age, Units	6.8		
→ H, Stand	lard Deviation, Units	0.04		
pH, 1st F	Replicate, Units	6.8		
oH, 2nd F	Replicate, Units	6.8		
H, 3rd R	Replicate, Units	6.7		
pH, 4th F	Replicate, Units	6.8		
^uadruplic	cate Conductivity:			
	, Average, umhos/cm	2100		
Sp. Cond.	, Std. Deviation, umhos/cm	0		
	, 1st Replicate, umhos/cm	2100		
	, 2nd Replicate, umhos/cm	2100		
⇒p. Cond.	, 3rd Replicate, umhos/cm	2100		
Sp. Cond.	, 4th Replicate, umhos/cm	2100		

Received: 05 AUG 85 Reported: 03 SEP 85

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Compton, California 90220

Project: Q1014-2

TOG NO	SAMPLE DESCRIPTION, AQUEOUS SAM	PLES	DATE SAMPLED
08-064-5	W-10-219thru233 Q1014-2	05 AUG 85	
ARAMETER		08-064-5	
TOC, 1st 1 TOC, 2nd 1 FOC, 3rd 1 TOC, 4th 1 Quadruplic	age, mg/L dard Deviation, mg/L Replicate, mg/L Replicate, mg/L Replicate, mg/L Replicate, mg/L	440 6.6 430 440 440 450	· · · · ·
TOX, 2nd TOX, 3rd TOX, 4th TOX, Aver	Replicate, mg/L Replicate, mg/L Replicate, mg/L	0.11 0.48 <0.05 0.17 0.21	

Received: 05 AUG 85 Reported: 03 SEP 85

Ken Durand J. H. Kleinfelder & Associates 901 W. Victoria Street, Suite G Compton, California 90220

Project: Q1014-2

REPORT OF ANALYTICAL RESULTS

L~3 NO	SAMPLE DESCRIPTION, AQUEOUS SAM	PLES	DATE SAMPLED
08-064-5	W-10-219thru233 Q1014-2		05 AUG 85
F RAMETER		08-064-5	
Purgeable xtractio crolein, Acrylonit chloroben thylbenz Methylene Trichloro oluene,	Priority Pollutants n ug/L rile, ug/L zene, ug/L ene, ug/L ene, ug/L chloride, ug/L ethylene, ug/L	08/20/85 <500 <500 50 6500 100 250 17,000 <50	
~	tified Results ** somers, ug/L	20,000	
	ification based upon comparison o the nearest internal standard.	f total ion count of the compou	and with

Edward Wilson, Laboratory Director

J. H. KLEINFELDER & ASSOCIATES

APPENDIX B



BROWN AND CALDWELL

ANALYTICAL LABORATORIES

JHR & A LA

LOG NO: P85-07-211

Received: 12 JUL 85 Reported: 23 JUL 85

Ken Durand J.H. Kleinfelder & Assoc. 901 W. Victoria St., Suite G Compton, CA 90220

Project: Ql014-2

TOG NO 7-211-1	SAMPLE DESCRIPTION, B5-10 Q-1014-2		SAMP	LES			DA	TE SAMPLED 12 JUL 85
77-211-2 07-211-3 7-211-4 -7-211-5 07-211-6	B5-25 Q-1014-2 B6-15 Q-1014-2 B6-25 Q-1014-2 S-4A-10 Q-1014-2 S-4A-25 Q-1014-2							12 JUL 85 12 JUL 85 12 JUL 85 12 JUL 85 12 JUL 85
ARAMETER		07-21	1-1	07-211-2	07-211-3	07-211-4	07-211-5	07-211-6
Copper, mg/ hromium, m wickel, mg/ Zinc, mg/kg itric Acid	g/kg kg	07/15	78 30 26 79 5/85	160 49 12 34 07/15/85	4100 5100 240 430 07/15/85	1500 98 43	410 14 31 110 07/15/85	24 67 9.7 150 07/15/85

Received: 12 JUL 85 Reported: 23 JUL 85

Ken Durand J.H. Kleinfelder & Assoc. 901 W. Victoria St., Suite G Compton, CA 90220

Project: Q1014-2

REPORT OF ANALYTICAL RESULTS

EDG NO	SAMPLE DESCRIPTION,	SOIL	SAMP	LES			D <i>ì</i>	ATE SAMPLED
7-211-7 -7-211-8 07-211-9 7-211-10 -7-211-11 07-211-12	S-08-10 Q-1014-2 S-08-25 Q-1014-2 S-09-15 Q-1014-2 S-09-25 Q-1014-2 S-10-10 Q-1014-2 S-10-25 Q-1014-2							12 JUL 85 12 JUL 85 12 JUL 85 12 JUL 85 12 JUL 85 12 JUL 85
ARAMETER		07-23	L1-7	07-211-8	07-211-9	07-211-10	07-211-11	07-211-12
Copper, mg/ hromium, m wickel, mg/ Zinc, mg/kg itric Acid	g/kg kg	07/15	61 41 27 96 5/85	94 3.7 <3.1 54 07/15/85	28 15 19 55 07/15/85	18 4.3 4.6 29 07/15/85	89 31 28 100 07/15/85	25 5.3 6.4 30 07/15/85

Edward Wilson, Laboratory Director

ANALYTICAL LABORATORIES

LOG NO: P85-10-038

Received: 02 OCT 85 Reported: 11 OCT 85

Ken Durand J. H. Kleinfelder & Associates 901 W. Victoria Street. Suite G Compton. California 90220

Project: Q1014-2

LOG NO SA	AMPLE DESCRIPTION.	SOIL	SAMPLE	ES			DA	TE SAMPLED
1 0- 038-2 B- 10-038-3 B- 1 -038-4 B- 1038-5 B-	-3-05 Q1014-2 -1-10 Q1014-2 -1-15 Q1014-2 -2-15 Q1014-2 -2-20 Q1014-2 -4-05 Q1014-2							
F_RAMETER		10-03	38-1	10-038-2	10-038-3	10-038-4	10-038-5	10-038-6
Chromium, mg/l C pper, mg/kg Natric Acid Di pH. Units	kg igestion. Date		420 1200 3/85 8.1	53 470 10/08/85 8.0	13 130 10/08/85 7.0	54 390 10/08/85 3.9	440 230 10/08/85 3.9	10.000 480 10/08/85 4.6

Received: 02 OCT 85 Reported: 11 OCT 85

Ken Durand J. H. Kleinfelder & Associates 901 W. Victoria Street, Suite G Compton, California 90220

Project: Q1014-2

LOG NO	SAMPLE DESCRIPTION.	SOIL SAMPLES			DATE	SAMPLED
£0-038-7 £0-038-8	B-5-05 Q1014-2 B-6-05 Q1014-2					
PARAMETER		* * * * * * * * * * * * * * * * * * *	 10-038-7	10-038-8		
Chromium. In Copper. mg	-		85 230 10/08/85 8.7	3700 460 10/08/85 4.5		

Received: 02 OCT 85 Reported: 11 OCT 85

Ken Durand J. H. Kleinfelder & Associates 901 W. Victoria Street, Suite G Compton, California 90220

Project: Q1014-2

LOG NO	SAMPLE DESCRIPTION. SOIL SAMPL	ES	DATE SAMPLED
10-038-9	B-3-15 Q1014-2		
PARAMETER		10-038-9	
Carbonate. Chloride. n Sulfate. m	d Digestion, Date mg/kg mg/kg	11 10/08/85 0.0 1100 110 23	

Received: 02 OCT 85 Reported: 11 OCT 85

Ken Durand J. H. Kleinfelder & Associates 901 W. Victoria Street. Suite G Compton. California 90220

Project: Q1014-2

EOG NO	SAMPLE DESCRIPTION. SOIL SAMPI	LES	DATE SAMPLED
0-038-10	B-5-15 Q1014-2		
PARAMETER		10-038-10	
H. Units Carbonate. Chloride. m	kg M Digestion. Date mg/kg mg/kg crogen (as N), mg/kg	3200 12.000 10/08/85 4.8 0.0 1600 21	

Received: 02 OCT 85 Reported: 11 OCT 85

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Project: Q1014-2

TOG NO SAMPLE DESCRI	IPTION, SOIL SAM	PLES			DA	TE SAMPLED
0-038-11	-2 -2 -2 1-2					
ARAMETER	10-038-11	10-038-12	10-038-13	10-038-14	10-038-15	10-038-16
Carbonate, mg/kg hloride, mg/kg mmmonia Nitrogen (as N), Sulfate, mg/kg	0.0 5100 mg/kg 29 20	0.0 2600 10 71	0.0 5500 42 41	0.0 2900 11 45	0.0 2700 29 79	0.0 1400 25 450

Received: 02 OCT 85 Reported: 11 OCT 85

Ken Durand J. H. Kleinfelder & Associates 901 W. Victoria Street. Suite G Compton. California 90220

Project: Q1014-2

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION.	SOIL SAMP	LES				DA	ATE SAMPLED
0-038-17 1 0-038-18 10-038-19 0-038-20	S-10-25 Q1014-2 S-09-15 Q1014-2 S-08-10 Q1014-2 B-06-15 Q1014-2							
PARAMETER				10-	-038-17	10-038-18	10-038-19	10-038-20
Chloride. m Ammonia Nit Sulfate. mg	ng/kg rogen (as N), mg/kg				0.0 470 6.6 67	0.0 4800 8.4 67		0.0 1800 500 2000

Edward Wilson. Laboratory Director

AUG 0 6 1985

ANALYTICAL LABORATORIES

III & A LA

LOG NO: P85-07-415

Received: 09 JUL 85 Reported: 31 JUL 85

Ken Durand
J.H. Kleinfelder & Assoc.
901 W. Victoria St., Suite G
Compton, CA 90220

Project: Q1014-2

LOG NO	SAMPLE DESCRIPTION,	SOIL	SAMPLES				DA	ATE SAMPLED
7-415-1 07-415-2 ^7-415-3 _7-415-4 07-415-5 07-415-6	B1-40 Q-1014-2 B1-50 Q-1014-2 B2-35 Q-1014-2 B2-40 Q-1014-2 B3-15 Q-1014-2 B4-10 Q-1014-2							08 JUL 85 08 JUL 85 08 JUL 85 08 JUL 85 08 JUL 85
PARAMETER		07-4]	15-1 07	7-415-2	07-415-3	07-415-4	07-415-5	07-415-6
H, Units			3.9	5.5	3.3	3.8	6.3	4.0

Received: 09 JUL 85 Reported: 31 JUL 85

Ken Durand
J.H. Kleinfelder & Assoc.
901 W. Victoria St., Suite G
Compton, CA 90220

Project: Q1014-2

LOG NO	SAMPLE DESCRIPTION,	SOIL	SAMPLES				D	ATE SAMPLED
7-415-7 07-415-8 ^7-415-9 7-415-10 07-415-11 07-415-12	B4-25 Q-1014-2 S-07-35 Q-1014-2 S-11-10 Q-1014-2 S-11-35 Q-1014-2 B5-10 Q-1014-2 B5-25 Q-1014-2							08 JUL 85 08 JUL 85 09 JUL 85 09 JUL 85 12 JUL 85 12 JUL 85
ARAMETER		07-4]	15-7 0	7-415-8	07-415-9	07-415-10	07-415-11	07-415-12
H, Units			4.2	6.9	4.9	8.2	8.3	4.5

Received: 09 JUL 85 Reported: 31 JUL 85

Ken Durand
J.H. Kleinfelder & Assoc.
901 W. Victoria St., Suite G
Compton, CA 90220

Project: Q1014-2

LOG NO	SAMPLE DESCRIPTION	, SOIL	SAMP	LES			DA	ATE SAMPLED
7-415-13 07-415-14 7-415-15 7-415-16 07-415-17	B6-15 Q-1014-2 B6-25 Q-1014-2 S-4A-10 Q-1014-2 S-4A-25 Q-1014-2 S-08-10 Q-1014-2 S-08-25 Q-1014-2							12 JUL 85 12 JUL 85 12 JUL 85 12 JUL 85 12 JUL 85 12 JUL 85
PARAMETER		07-415	-13	07-415-14	07-415-15	07-415-16	07-415-17	07-415-18
H, Units			3.6	4.2	4.9	6.2	7.3	8.5

Received: 09 JUL 85 Reported: 31 JUL 85

Ken Durand J.H. Kleinfelder & Assoc. 901 W. Victoria St., Suite G Compton, CA 90220

Project: Q1014-2

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION,	SOIL	SAMPLES			DA	ATE SAMPLED
7-415-19 07-415-20 07-415-21 7-415-22	S-09-15 Q-1014-2 S-09-25 Q-1014-2 S-10-10 Q-1014-2 S-10-25 Q-1014-2						12 JUL 85 12 JUL 85 12 JUL 85 12 JUL 85
PARAMETER				 07-415-19	07-415-20	07-415-21	07-415-22
H. Units				 6.9	7.4	8.3	7.3

Edward Wilson, Laboratory Director

JHK & A LA



LOG NO: P85-07-169

Received: 10 JUL 85 Reported: 30 JUL 85

Ken Durand
J.H. Kleinfelder & Assoc.
901 W. Victoria St., Suite G
Compton, CA 90220

Project: Q1014-2

LOG NO	SAMPLE DESCRIPTION,	SOIL	SAMPLE	S			DA	TE SAMPLED
7-169-1 07-169-2 07-169-3 7-169-4 17-169-5 07-169-6	B1-40 Q1014-2 B1-50 Q1014-2 B2-35 Q1014-2 B2-40 Q1014-2 B3-15 Q1014-2 B4-10 Q1014-2							08 JUL 85 08 JUL 85 08 JUL 85 08 JUL 85 08 JUL 85 08 JUL 85
ARAMETER		07-1	69-1	07-169-2	07-169-3	07-169-4	07-169-5	07-169-6
Cadmium, mg hromium, m Copper, mg/ Zinc, mg/kg itric Acid	g/kg kg	07/1	1.5 600 400 180 1/85	8.0 280 160 95 07/11/85	1.2 2000 250 120 07/11/85	1.4 150 550 170 07/11/85	<0.67 16 31 57 07/11/85	<0.62 16,000 820 92 07/11/85

Received: 10 JUL 85

Reported: 30 JUL 85

Ken Durand J.H. Kleinfelder & Assoc. 901 W. Victoria St., Suite G Compton, CA 90220

Project: Q1014-2

LOG NO	SAMPLE DESCRIPTION,	SOIL SAMPLES			DA	TE SAMPLED
(-169-7 07-169-8 07-169-9 (-169-10	B4-25 Q1014-2 S-07-35 Q1014-2 S-11-10 Q1014-2 S-11-35 Q1014-2					08 JUL 85 08 JUL 85 09 JUL 85 09 JUL 85
PARAMETER			07-169-7	07-169-8	07-169-9	07-169-10
(_dmium, mg Chromium, m Copper, mg/ inc, mg/kg Nitric Acid	ıg/kg kg		<0.61 550 1200 52 07/11/85	<0.59 35 46 77 07/11/85	1.2 16 2400 120 07/11/85	3.0 18 40 68 07/11/85

Received: 10 JUL 85 Reported: 30 JUL 85

Ken Durand J.H. Kleinfelder & Assoc. 901 W. Victoria St., Suite G Compton, CA 90220

Project: Q1014-2

EOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES		DATE SAMPLED
7-169-11	B4-15 Q1014-2		08 JUL 85
PARAMETER		07-169-11	
Extraction Acrolein, Acrylonitr		07/27/85 <3 <3 <0.3	

Received: 10 JUL 85 Reported: 30 JUL 85

Ken Durand J.H. Kleinfelder & Assoc. 901 W. Victoria St., Suite G Compton, CA 90220

Project: Q1014-2

Leg NO	SAMPLE DESCRIPTION	, SOIL SAM	MPLES			DA	ATE SAMPLED
0 -169-12 0 -169-13 07-169-14 07-169-15 0 -169-16 07-169-17	B1-05 Q1014-2 B1-10 Q1014-2 B1-15 Q1014-2 B1-20 Q1014-2 B1-30 Q1014-2 B2-05 Q1014-2						08 JUL 85 08 JUL 85 08 JUL 85 08 JUL 85 08 JUL 85 08 JUL 85
P_RAMETER		07-169-12	2 07-169-13	07-169-14	07-169-15	07-169-16	07-169-17
	, Not Analyzed	HOLI) HOLD	HOLD	HOLD	HOLD	HOLD

Received: 10 JUL 85 Reported: 30 JUL 85

Ken Durand
J.H. Kleinfelder & Assoc.
901 W. Victoria St., Suite G
Compton, CA 90220

Project: Q1014-2

LOG NO	SAMPLE DESCRIPTI	ON, SOIL SAME	PLES			DA	ATE SAMPLED
'-169-18 169-19 07-169-20 '-169-21 169-22 07-169-23	B2-10 Q1014-2 B2-15 Q1014-2 B2-20 Q1014-2 B2-30 Q1014-2 B3-05 Q1014-2 B3-10 Q1014-2						08 JUL 85 08 JUL 85 08 JUL 85 08 JUL 85 08 JUL 85 08 JUL 85
RAMETER		07-169-18	07-169-19	07-169-20	07-169-21	07-169-22	07-169-23
Sample Held	, Not Analyzed	HOLD	HOLD	HOLD	HOLD	HOLD	HOLD

Received: 10 JUL 85 Reported: 30 JUL 85

Ken Durand
J.H. Kleinfelder & Assoc.
901 W. Victoria St., Suite G
Compton, CA 90220

Project: Q1014-2

TOG NO	SAMPLE DESCRIPTION,	SOIL	SAMP	PLES			DA	ATE SAMPLED
7-169-24 -7-169-25 07-169-26 ^7-169-27 -7-169-28 07-169-29	B4-05 Q1014-2 B4-20 Q1014-2 B4-30 Q1014-2 S-07-05 Q1014-2 S-07-15 Q1014-2 S-07-20 Q1014-2							08 JUL 85 08 JUL 85 08 JUL 85 08 JUL 85 08 JUL 85 08 JUL 85
ARAMETER		07-169	9-24	07-169-25	07-169-26	07-169-27	07-169-28	07-169-29
Sample Held	, Not Analyzed]	HOLD	HOLD	HOLD	HOLD	HOLD	HOLD

Received: 10 JUL 85 Reported: 30 JUL 85

Ken Durand
J.H. Kleinfelder & Assoc.
901 W. Victoria St., Suite G
Compton, CA 90220

Project: Q1014-2

REPORT OF ANALYTICAL RESULTS

TOG NO	SAMPLE DESCRIPTION	, SOIL SAME	PLES			DA	ATE SAMPLED
7-169-30 -7-169-31 07-169-32 7-169-33 -7-169-34 07-169-35	S-07-25 Q1014-2 S-07-45 Q1014-2 S-11-05 Q1014-2 S-11-15 Q1014-2 S-11-25 Q1014-2 S-11-45 Q1014-2						08 JUL 85 08 JUL 85 09 JUL 85 09 JUL 85 09 JUL 85 09 JUL 85
ARAMETER		07-169-30	07-169-31	07-169-32	07-169-33	07-169-34	07-169-35
Sample Held	, Not Analyzed	HOLD	HOLD	HOLD	HOLD	HOLD	HOLD

Edward Wilson, Laboratory Director

Soil saughe Southern Chemical Labor 6. Offerbach. T. Kingpage / of 3

	l		·		
		P.P.m.	P.p.m	Cd	
/. -	B3-15'			nie	pH 7.02 send
2.	134-05'	23,000	2,666	nil	pH 3.78 siet &.
3.	B4-10'	17,500	1	nil	pH-3.38 silt
4,	B4-151	11,250	4,333	ni'l	pH3.58 silet
5.	134-201	4,000	1,750	nie	pH 3.68 Sent
6:	B4-25'	283	1,333	nie	pH 4.07 sent
7.	134-30'	5,416	2,416	nil	pH.3.38 scilot of select
8	B1-40'	616	266	1.8 ppm	pH 3.61 silt
97	B/- 50'	192	46	5,8	pH 6.08 clay.
10	B2 - 35'	1,333	142	4.8	pH 3.10 silt
//-	B2 - 40'	583	308	2.8	pH 3.26 clay pH 6.57. seud.
-	B1-051	50	150	4.2	pH 6.57. send.

1	•				-	The Kill:
•••		Czjpm	Cuphn	Cd sim		
13	MW8-05	1,417	192	nil	pH 7,44.	si.lf
14	MW8-10	4.2	58	ł	pH 6.03	silt filla
15.	MW8-15	192	92	nil	pH 6.51	Send
в -	Mh/8-20	8.3	33	nil	pH 5.58	Sent
17	MW8-25	nil	17	ni'l	pH 6.16	send
	MW8 -35	1	42	nil.	pH 5.99	clay,
19	B5-05	1,500	1,583	ni'l	pH 3.72	silf send
24_	B5-10	25	58	nil	pH 6.91	silf
2/-	B5-15-	1,083	2,333	nil	pH 6.62	se'et
1/2.	B5 20	1,416	1,666	nil	pH 5.25	self
12.	135-25	283	450	mil	pH 3.70	send
	135-30					
	B6-05			-		~ 1
-	*					

- 186-15 11,333 1,250 nie 94 4.12 seud. 27 B6-20 1,833 2,166 nie 94 4.12 seud. 22 B6-25 1,166 1,333 nie 94 417 seud. 29 B6-30 3,416 1,750 nie 94 3.59 seit. 30 3-		7			inter , alber.	ΰ	poige	- 4 3
27 B6-20 1,833 2,166 mil ph 395 send 22 B6-25 1,166 1,333 mil ph 417 send 29 B6-30 3,416 1,750 mil ph 3.59 seit 30 3-	-		1.3.00	Car-	Cd			
22 B6-25 1,166 1,333 mil. pt 417 sud 27 B6-30 3,416 1,750 mil. pt 3.59 sixt 30 3-	2 5	B6-15	4,333	1,250	nil	g#	4.17	send.
27 B6-30 3,416 1,750 mil pt 3.59 siet 30 3-	27	B6-20	1,833	2,166	nil	OH	3,95 ⁻	seud
3/- - - - -	22	136-25	1,166	1,333	nil-	PH	4.17	send
3.4	27	B6-30	3,416	1,750	nil	OH.	3 .59	silt
	30							•
B-27	3				·			
B-27								
B-27								
B-27	-							
B-27		•						
B-27								
								B-27

J. H. KLEINFELDER & ASSOCIATES

APPENDIX C

[V]

I	then. I		SHIPPING	INFORMATION
Phone:			Shipper	
Brown	& Coldye	<i>U</i>	Address	
.			1	
			Airbill No.	
ATTENTION:_			i .	
Phone No				
Relinquished b		Rec	eived by: (Signature)	Date/Time
Relinquished b	y: (Signature)	5/#	eived by: (Signature)	Date/Time
- AL	the White	~ ///n	gived by: (Signature)	7/10/05/3:42
Relinquished b	y: (Signature)	1/1ºc	eryed by. (Signature)	Date/Time
Relinquished b	y: (Signature)	Rec	eive for laboratory by*:(Signature) Date/Time
*Analysis la	aboratory should comple H. KLEINFELDER & AS	te, "sample condition SOCIATES, 901 W. Vi	upon receipt", section below, sign a ctoria Street, Suite G, Compton, C/	and return original (white) A 90220.
Sample	Site	Date	Analysis	Sample Condition
Number	Identification	Sampled	Requested	Upon Receipt
B3-05	1014-2	7-8-25	hold	
B3-10			hold	
33-15			Some 4 mitale	
1 84-05			Some 4 mittle	
B4-10				
184-15			<u>hold</u>	
B4-20			hold	
84-25			Some 4 metals	
<u>24-30</u> 5-07-05	The state of the s		hill	
5-07-15				
-07-20			hold	
5-07-25			hold	
5-67-35			Same 4 metals	
	Laboratory reports she	auld reference and h	e billed by site ID# and contain	the following:
AB INSTRUCTIONS:				

e-1

Phone:	Eleny		SHIPPING INF	FORMATION
SHIP TO:			Shipper	
- Brun	& Coldan	M	Address	
		· · · · · · · · · · · · · · · · · · ·	Date Shipped	*

			Shipment Service	
			Airbill No.	
			Cooler No.	
elinquished b		Rece	eived by: (Signature)	Date/Time
Relinquished b	V. (Sprance)	Redi	Type les Daline	2 7/10/cs 1142 Date/Time
		Lucs III.	(Signals)	7/0/5-3:42/
Relinquished b	y: (Signature)	Hece	siyed by: (Signature)	Date/Time
		"//		
telinquished b	y: (Signature)	Rece	we for laboratory by :(Signature)	Date/Time
		/		
*Analysis la copy to J.	aboratory should complete. KLEINFELDER & AS	ete, "sample condition SSOCIATES, 901 W. Vic	upon receipt", section below, sign and storia Street, Suite G, Compton, CA 90	return original (white) 0220.
Sample	Site	Date	Analysis	Sample Condition
Number	Identification	Sampled	Requested	Upon Receipt
B1-05	4 1014-2	7-8-85		
B1-10			<u>leold</u>	
31-15			hold	
B1-20			hold	
		,	hold	
			Liord	
31-36			CADMIUM, Chromum Pine,	Comper
				Comper
31-36 B1-40 B1-50			Cadmium, Chromum, Time, Strone 4 metals	1 Cope per
31-36 B1-40 B1-50 B2-05			Stree 4 metals Lold	, Copper
31-36 B1-40 B1-50 B2-05 B2-10			Stre 4 metals hold	Comper
31-36 B1-40 B1-50 B2-05 B2-10 B2-15			CADMIUM, Chromum, Pinc, Stone 4 metals hold hold hold	у Соррег
31-36 B1-40 B1-50 B2-05 B2-10 B2-15 B2-20			Cadmium, Chromum, Pinc, Stone 4 metals hold hold hold hold	Соррег
31-36 B1-40 B1-50 B2-05 B2-10 B2-15 B2-20 B2-30			Stone 4 metals Lold Lold Lold Lold Lold Lold Lold	(Сореде С
31-36 B1-40 B1-50 B2-05 B2-10 B2-15 B2-20 B2-30 B2-35			Cadmium, Chromum, Pinc, Stone 4 metals hold hold hold hold	Соррег
31-36 B1-40 B1-50 B2-05 B2-10 B2-15 C2-20 B2-30			CADMICH, Chromum Pine, Strue 4 metals hold hold hold hold Some 4 metals	Соррег
31-36 B1-40 B1-50 B2-05 B2-10 B2-15 B2-20 B2-30 C2-35 C2-40	Laboratory reports sh	ould reference and be	CADMICH, Chromum Pine, Stree 4 metals hold hold hold hold Some 4 metals	
31-36 B1-40 B1-50 B2-05 B2-10 B2-15 B2-15 B2-20 B2-30 C2-35 C2-40 BINSTRUCTIONS:	alytical methodology a	nd QA work (blanks, s	Struc 4 metals Lold Lold Lold Lold Lold Lold Lold Struc 4 metals 1, 1, 4 billed by site ID# and contain the pikes, duplicates)	
31-36 B1-40 B1-50 B2-05 B2-10 B2-15 B2-15 B2-20 B2-30 B2-30 B2-30 B2-40 B INSTRUCTIONS: summary of and dates for (a)	alytical methodology a sampling, (b) lab rec ts for all constituent	nd QA work (blanks, s eipt, (c) extraction,	Stree 4 metals Lold Lold Lold Lold Lold Lold Lold Lold Lold Stree 4 metals 1' ' " billed by site ID# and contain the	following:

Phone: (2/3) 635	-9344	SI	HIPPING INF	ORMATIC	ON	
SHIP TO:		Shipper	BEC			
Brown - Colde	ds	Address				
		Date Shipped				
		Shipment Service				
		Airbill No				
ATTENTION:	1	Cooler No.				
Phone No.			75			
lelinquished by: (Signature)		Received by: (Signature)	()		7/11/85	, ,
lelinquished by: (Signature))	Received by: (Signature)	حسلا		Date	
harles Hal	/					
Relinquished by: (Signature)		Received by: (Signature)			Date/	Time
		i e				
Relinquished by: (Signature)		Receive for laboratory by	(Signature)		Date	Time
*Analysis laboratory should co	mplete, "sample con & ASSOCIATES, 901 Date		elow, sign and	220.		
*Analysis laboratory should co copy to J. H. KLEINFELDER & Sample Site Number Identification 35 -05 Q1014-0	Date Sampled	dition upon receipt", section be W. Victoria Street, Suite G, Co Analysis Requested	elow, sign and in mpton, CA 90:	Samp Up	inal (white)	on
*Analysis laboratory should cocopy to J. H. KLEINFELDER & Site Number Identification 35 - 05 Q 1014-0	Date Sampled	dition upon receipt", section be W. Victoria Street, Suite G, Co Analysis Requested Lett	elow, sign and in mpton, CA 90:	Samp Up	inal (white)	on
*Analysis laboratory should co copy to J. H. KLEINFELDER & Sample Site Number Identification	Date Sampled	dition upon receipt", section be W. Victoria Street, Suite G, Co Analysis Requested	elow, sign and in mpton, CA 90:	Samp Up	inal (white)	on
*Analysis laboratory should cocopy to J. H. KLEINFELDER & Site Number Identification 35 - 05 Q 1014-0	Date Sampled	dition upon receipt", section be W. Victoria Street, Suite G, Co Analysis Requested Lett Capper, Chrom.	elow, sign and a pmpton, CA 90:	Samp Up	inal (white)	on
*Analysis laboratory should cocopy to J. H. KLEINFELDER & Sample Site Number Identification 35 - 05 Q / 014-2 35 - 10 35 - 15 35 - 20 35 - 20	Date Sampled	dition upon receipt", section be W. Victoria Street, Suite G, Co Analysis Requested Lett Capper, Chrom. Wold	elow, sign and a pmpton, CA 90:	Samp Up	inal (white)	on
*Analysis laboratory should cocopy to J. H. KLEINFELDER & Site Number Identification 35 - 05 Q/014-2 35 - 15 35 - 15 35 - 20 25 - 25 2 35 - 30	Date Sampled	dition upon receipt", section be W. Victoria Street, Suite G, Co Analysis Requested (copper, Chrom, hold hold Copper, chrome	elow, sign and a pmpton, CA 90:	Samp Up	inal (white)	on
*Analysis laboratory should cocopy to J. H. KLEINFELDER & Site Number Identification 35 - 05 Q/014-0 35 - 10 35 - 15 35 - 20 35 - 20 35 - 30	Date Sampled	dition upon receipt", section be W. Victoria Street, Suite G, Co Analysis Requested Lald Capper, Chrom. hold Capper, chrom. hold Modd	elow, sign and a sign	Samp Up	inal (white)	on
*Analysis laboratory should cocopy to J. H. KLEINFELDER & Site Sample Site Number Identification 35 - 05	Date Sampled	dition upon receipt", section be W. Victoria Street, Suite G, Co Analysis Requested Lold Copper, Chrom Lold	elow, sign and a sign	Samp Up	inal (white)	on
*Analysis laboratory should cocopy to J. H. KLEINFELDER & Sample Site Identification 35 - 05 Q/014-0 35 - 15 35 - 10 35 - 25 2 35 - 30 36 - 05 36 - 20	Date Sampled	dition upon receipt", section be W. Victoria Street, Suite G, Co Analysis Requested Lold Copper, Chrom Lold Lold Lold Copper, Chrom Lold Lold Lold Copper, Chrom Lold Lold Lold Lold Lold Lold	elow, sign and in proposed of the proposed of	Samp Up	inal (white)	on
*Analysis laboratory should cocopy to J. H. KLEINFELDER & Site Number Identification 35 - 05 Q/014-9 35 - 15 35 - 15 35 - 25 2 35 - 30 36 - 05 4 36 - 25 4	Date Sampled	dition upon receipt", section be W. Victoria Street, Suite G, Co Analysis Requested Lold Copper, Chrom Lold Lold Lold Copper, Chrom Lold Lold Lold Copper, Chrom Lold Lold Lold Lold Lold Lold	elow, sign and a sign	Samp Up	inal (white)	on
*Analysis laboratory should co copy to J. H. KLEINFELDER & Site Number Identification 35 - 05 Q/014-2 35 - 10 35 - 15 35 - 20 35 - 30 36 - 05 6 - 15 3	Date Sampled	dition upon receipt", section be W. Victoria Street, Suite G, Co Analysis Requested Lold Copper, Chrom Lold Lold Lold Copper, Chrom Lold Lold Lold Copper, Chrom Lold Lold Lold Lold Lold Lold	elow, sign and in proposed of the proposed of	Samp Up	inal (white)	on
*Analysis laboratory should cocopy to J. H. KLEINFELDER & Site Number Identification 35 - 05 Q/014-9 35 - 15 35 - 15 35 - 25 2 35 - 30 36 - 05 4 36 - 25 4	Date Sampled	dition upon receipt", section be W. Victoria Street, Suite G, Co Analysis Requested Lold Copper, Chrom Lold Lold Lold Copper, Chrom Lold Lold Lold Copper, Chrom Lold Lold Lold Lold Lold Lold	elow, sign and in proposed of the proposed of	Samp Up	inal (white)	on

Mhita I U Klainfaldar O Associatos

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85-07-211 HAIN OF CUSTODY RECOR AMPLERS: (Signature) SHIPPING INFORMATION Phone:_ RFC HIP TO: Shipper _ Address ___ Date Shipped _____ Shipment Service _____ Airbill No. _ TTENTION:____ Cooler No. __ Phone No. alinquished by: (Signature) Received by: (Signature) Date/Time Pelinquished by Signature Received by: (Signature) Date/Time Relinquished by: (Signature) Date/Time Received by: (Signature) Date/Time inquished by: (Signature) Receive for laboratory by : (Signature) *Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to J. H. KLEINFELDER & ASSOCIATES, 901 W. Victoria Street, Suite G, Compton, CA 90220. Sample Site Analysis Sample Condition Date Upon Receipt Number Identification Requested Sampled 7-10-65 44-051 egget, disomien, Zine, Nichol LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following: (1 summary of analytical methodology and QA work (blanks, spikes, duplicates) (2) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis (3) detection limits for all constituents analyzed for and reporting of all constituents detected which were not

1-11

specifically designated

<u>Pen</u> Phone: 213	(1) 638-934	4		SHIPPING II	NFORMATIO	N
SHIP TO:				Shipper BEC	<u> </u>	
Boown 9	E Caldne	//		Address		
				Date Shipped		
				Shipment Service		
				Airbill No.		
ATTENTION:	*****			Cooler No.		
Phone No						
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Han Ole	en /			trul Hole		7/n/85 4
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Relinquished by:	(Signature)		Receive f	or laboratory by : (Signature)		Date/Tim
•						
		ete, "sample cond	dition upon	receipt", section below, sign an	nd return origin	nal (white)
*Analysis lab	oratory should comple . KLEINFELDER & AS	SOCIATES 901	W. Victoria	Street, Suite G. Compton, CA	90220.	(
*Analysis lab copy to J. H Sample	Site	Date	W. Victoria	Analysis	90220.	e Condition
copy to J. H	. KLEINFELDER & AS	SOCIATES, 901	W. Victoria	Street, Suite G, Compton, CA	90220. Sa mpi	
copy to J. H Sample Number	. KLEINFELDER & AS	Date	W. Victoria	Analysis Requested	90220. Sampi Upo	e Condition
copy to J. H Sample Number 5-09-05	Site Identification	Date Sampled	W. Victoria	Analysis	90220. Sampi Upo	e Condition
copy to J. H Sample Number S-09-05 S-09-159	Site Identification	Date Sampled	W. Victoria	Analysis Requested	90220. Sampi Upo	e Condition
copy to J. H Sample Number 5-09-05 5-09-150 5-09-20	Site Identification	Date Sampled	W. Victoria	Analysis Requested	90220. Sampi Upo	e Condition
copy to J. H Sample Number	Site Identification	Date Sampled	W. Victoria	Analysis Requested Lold Analysis Requested Lold Lold Lold Lold Lold Lold	90220. Sampi Upo	e Condition
copy to J. H Sample Number 5-09-05 5-09-159 S-09-20 S-05-25 19	Site Identification	Date Sampled	W. Victoria	Analysis Requested Lold Analysis Requested Lold Lold Same as above	90220. Sampi Upo	e Condition
copy to J. H Sample Number 5-09-05 5-09-159 5-09-20 5-05-25 10 5-05-35	Site Identification	Date Sampled	W. Victoria	Analysis Requested Lold Analysis Requested Lold Lold Same as above	90220. Sampi Upo	e Condition
copy to J. H Sample Number 5-09-05 5-09-159 5-09-20 5-05-25 5-09-35	Site Identification	Date Sampled	W. Victoria	Analysis Requested Lold Analysis Requested Lold Analysis Requested Lold Same as above Lold	90220. Sampi Upo	e Condition
copy to J. H Sample Number 5-09-05 5-09-159 S-09-20 S-05-25 19	Site Identification	Date Sampled	W. Victoria	Analysis Requested Lold Lold Lold Same as above hold hold hold	90220. Sampi Upo	e Condition
copy to J. H Sample Number 5-09-05 5-09-159 5-09-20 5-05-25 10 5-09-35 5-10-05 5-10-15	Site Identification	Date Sampled	W. Victoria	Analysis Requested Lold Lold Same as above hold hold Same as thore	90220. Sampi Upo	e Condition
copy to J. H Sample Number \$-09-05 \$-09-159 \$-09-20 \$-05-25 10 \$-05-35 \$-10-05 \$-10-15 \$-10-15	Site Identification	Date Sampled	W. Victoria	Analysis Requested Lold Lold Same as above hold hold Same as Above hold Lold	90220. Sampi Upo	e Condition
copy to J. H Sample Number 5-09-05 5-09-159 5-09-20 5-05-25 10 5-09-35 5-10-05 5-10-15	Site Identification	Date Sampled	W. Victoria	Analysis Requested Lold Lold Same as above hold hold Chne as there lold	90220. Sampi Upo	e Condition
copy to J. H Sample Number 5-09-05 5-09-159 5-09-20 5-05-25 10 5-05-35 5-10-05 5-10-10 11 5-10-15 5-10-25 12	Site Identification	Date Sampled	W. Victoria	Analysis Requested Lold Same & Above hold Same & Above hold	90220. Sampi Upo	e Condition
copy to J. H Sample Number 5-09-05 5-09-159 5-09-20 5-05-25 10 5-09-35 5-10-05 5-10-15 5-10-15 5-10-25 12	Site Identification	Date Sampled	W. Victoria	Analysis Requested Lold Same & Above hold Same & Above hold	90220. Sampi Upo	e Condition

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J. H. KLEII	NFELDER & ASSOCIA	TES, 15303 Vent	ura Blvd.,	Suite 700, Sherman Oaks, CA 914	403-3156.
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) summary of analy	aboratory reports sh	and OA work (blan	nks. snik	es. duplicates)	in the fo	ollowing:		
) summary of analy) dates for (a) sa	ytical methodology a ampling, (b) lab rec for all constituent	and QA work (blameter), (c) extrac	nks, spik tion, (d				not	

J. H. KLEINFELDER & ASSOCIATES

APPENDIX D

See reverse side for instructions. Please **; == or print clearly. Press Hard.	State Department of Health Services 1 Manifest 189 000452 HAZARDOUS MATERIALS MANAGEMENT SECTION Number 189 000452 744 P Street, Sacramento, CA 95814
GENERATOR (GENERATOR MUST COMPLETE)	3 Designated TSD Facility (Authorized to operate under an
2 Name SouthEpn CALIF CHEM.	approved state program or federal program.) A Alternate TSD Facility Name Name
EPA * 16 19 10 10 10 18 14 18 18 10 12 151	Name - D - A - Name - N
Address 8851 DICE RD Phon 698-5036	Address 2210 A2USA RU Phone 965-0916 Address Phone
City, State, Zip. S.F. S. C.A. 90670	City, State, Zip WEST COVINA CA City, State, Zip
	U.S. DOT UN/NA WEIGHT HAZARD CLASS ID NO. OR VOLUME UNITS NUMBER OF CONTAINERS
WASTE N/A	5.000 CACS TYPE: DRUMS BAGS DCARTONS
WASTE	TANK TRUCK LIDUMP TRUCK
6 Waste Category AUD T WATER 7 Ext. Haz. Waste CONCENTRAT UPPER	
9 A. /RON 25	
B. Copper	
c. CHROME 3	₩ □ ppm. G □ % □ ppm.
O. OTHER METALS	
10 WASTE PROPERTIES: pH 7.0 Toxic Flammable	
11 PHYSICAL STATE: Solid Liquid Sludge Slurry 12 SPECIAL HANDLING INSTRUCTIONS: Gloves Goggles	
GENERATOR CERTIFICATION: This is to certify that the above applicable regulations of the Department of Transportation and EPA. IN THE EVENT OF A SPILL, CONTACT THE NARESPONSE CENTER, U.S. COAST GUARD 1-800	
TRANSPORTER (HAULER MUST COMPLETE)	15 PICK-UP DATE 12-8-1
14 TRANSPORTER NAME NASH SALVAGE INC.	EPA NO C A D 9 9 0 8 0 2 9 9 3 Time 250 AM PA
ADDRESS 16211 Placid Drive	PHONE (213) 941-5117 16 Stin Flostian 12-P-81
CITY, STATE, ZIP Whittier, CA 90604	Signature of Authorized Agent and Title Date
EPA NO. CHAT 4019717867491 PHONE NO. 9050911	Surface Impoundment Dandfill 19 STATE FEE (If Any) 20.97
20 INDICATE ANY SIGNIFICANT DISCREPANCIES BETWEEN MAN	DFC 2 1 1001
IF WASTE IS HELD FOR DELIVERY ELSEWHERE, SPECIFY THE	DESIGNATED TSU FACILITY
22 Designated TSD Facility Name	(6SO.) CALIF. CHEM. CO. EPA NO. 12-8-81
23 Signature of Auth	orized Agent and Title Date Accepted
Co WHIT ID Fac Beeps! (Dopy MS) 7 1/2-Y5	. LIGW: To Tropsporter from TSDE - Copy 3—PINK: To Generator from TSDF - Copy 4—GOLDENROD: Generator Keeps (Send Copy to Dec

-See reverse side for instructions. State Department of Health Services Please type or print clearly, Press Hard. HAZARDOUS MATERIALS MANAGEMENT SECTION 744 P Street, Sacramento, CA 95814 (GENERATOR 3 Designated T9D Facility (Authorized to operate under an **GENERATOR** MUST COMPLETE approved state program or federal program.) 4 Alternate TSD Facility BKK Dump 2 Name Southern California Chemical CoName EPA # L C /A D 10 0 18 14 18 18 10 12 15 1 EPA # C A D 10 16 17 17 18 16 17 14 19 1 Address 8851 Dice Rd. 698-8036 Address 2210 Azusa Rd. Phone City, State, Zin Santa Fe Springs, Ca. 90670 Covina, Ca. City, State, Zip __ City, State, Zip. U.S. DOT HAZARD CLASS WEIGHT OR VOLUME U.S. DOT PROPER SHIPPING NAME N/A NUMBER OF CONTAINERS UNITS TYPE: DRUMS BAGS CARTONS WASTE Mud & Water (37) 5000 TANK TRUCK DUMP TRUCK WASTE Mud & Water (37) 7 Ext. Haz. Waste Permit No. 8 Generating Process Metal Reclaiming CONCENTRATION RANGE CONCENTRATION RANGE LIST COMPONENTS: UNITS LIST COMPONENTS: UPPER LOWER UNITS UPPER LOWER Iron 60 15 X □ % □ ppm. **X** % □ ppm. Copper ™% □ppm. □% □ppm. Chrome 1 % □ppm. □% □ppm. Other Metals ₹ 5% □ppm. Non-Hazardous Material ... 10 WASTE PROPERTIES: pH8_0-9_0 Film pable X PROPERTIES: pH8_0-9_0 Carcinogen/Mutagan 11 PHYSICAL STATE: Solid Liquid Liqui 12 SPECIAL HANDLING INSTRUCTIONS: X Gloves Goggles Respirator Other_ GENERATOR CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked, labeled, end are in proper condition for transportation according to the applicable regulations of the Department of Transportation and EPA. IN THE EVENT OF A SPILL, CONTACT THE NATIONAL Signature of Authorized Agent and Title G. G. Otterbach, Plant Mgor Shipped RESPONSE CENTER, U.S. COAST GUARD 1-800-424-8802 15 PICK-UP DATE TRANSPORTER (HAULER MUST COMPLETE) EPA NO. | C | A | D | 9 | 9 | 0 | 8 | 0 | 2 | 9 | 9 | 3 | Time / / NASH SALVAGE INC. 14 TRANSPORTER NAME ADDRESS 16211 Placid Drive PHONE (213) 941-5117 Whittier, CA 90604 CITY, STATE, ZIP __ (EACHDY OPERATOR MUST COMPLETE) TSD FACILITY 21 HANDLING OR DISPOSAL METHOD: Surface Impoundment Mandfill B QUANTITY (If Measured) __ ☐ Injection Well ☐ Land Treatment Treatment (Specify) _ PHONE NO. Decovery or Re-use Storage/Transfer 20 INDICATE ANY SIGNIFICANT DISCREPANCIES BETWEEN MANIFEST AND SHIPMENT: Recycle OCT 2 9 1982 IF WASTE IS HELD FOR DELIVERY ELSEWHERE, SPECIFY THE DESIGNATED TSD FACILITY: 22 Designated TSD Facility Name. Signature of Authorized Agent and Title Copy 4-GOLDENROD: Generator Keeps (Send Copy to DOHS Copy 3-PINK: To Generator from TSDF

SEE REVERSE SIDES FOR INSTRUCTIONS. PLEASE TYPE

REVISED 11/80

OR PRINT CLEARLY. HAZARDOUS MATERIALS, MANAGEMENT SECTION PRESS HARD 744 P STREET, SACRAMENTO, CA 95814 GENERATOR | (GENERATOR MUST COMPLETE) (1) DESIGNATED TSD FACILITY ALTERNATE TSD FACILITY (AUTHORIZED TO OPERATE UNDER AN APPROVED STATE OR FEDERAL PROGRAM) ONAME Southern California Chemical Co. C A D O O S 4 3 8 0 2 NAME B K L DUMO NAME 3351 Dice Rd. **ADDRESS** C A D O 6 7 7 EPA NO. Santa Fe Springs. 90670 2210 Agusa Rd ADDRESS **ADDRESS** (213) 693-8036CITY, STATE, CITY STATE, PHONE NO. Covina. ZIP CODE ORDER ORDER PLACED BY _ PHONE NO. PHONE NO. P.O. / CONTRACT NO. U. S. DOT HAZARD WEIGHT OR VOLUME (5) U. S. DOT PROPER SHIPPING NAME UNITS CONTAINERS: NUMBER $\Lambda \Lambda_L$ 4500 gal. WASTE DRUMS BAGS CARTONS WASTE OTHER faud & Woler ascida da a da da da G **WASTE CATEGORY** O EX. HAZ. WASTE PERMIT NO (B) GENERATING PROCESS CONC. RANGE CONC. RANGE UNITS UNITS LIST COMPONENTS: UPPER LOWER UPPER LOWER LEGU COODE Chrone Other Betals NONHAZARDOUS MATERIAL WASTE PROPERTIES: PH 0 . 0-9 TT TOXIC CORROSIVEURRITANT REACTIVE PHYSICAL STATE SLUAHY SLUDGE (SPECIAL HANDLING INSTRUCTIONS: OG. G. Otterbach, Plant Mgr. & IN THE EVENT OF A SPILL CONTACT THE NATIONAL RESPONSE CENTER, U. S. COAST GUARD 1-800-424-8802. SIGNATURE OF AUTHORIZED AGENT & TITLE TRANSPORTER | (HAULER MUST COMPLETE) NAME CALIF. CHEMICAL DISPOSAL CAD98073531 ADDRESS 12159 LONGWORTH ZIP CODE NORWALK, CA 90650 DEC 1 3 1982 PHONE NO. (213) 868-1675 SO CALLE CHEM CO TSD FACILITY (OPERATOR MUST COMPLETE) NAME HANDLING OR DISPOSAL METHOD EPA NO. SURFACE IMPOUNDMENT LANDFILL INDICATE ANY SIGNIFICANT DISCREPANCIES BETWEEN MANIFEST AND SHIPMENT INJECTION WELL LAND TREATMENT TREATMENT (SPECIFY) IF WASTE IS HELD FOR DELIVERY ELSEWHERE, SPECIFY THE DESIGNATED TSD FACILITY RECOVERY OR REUSE STORAGE TRANSFER

SIGNATURE OF AUTHORIZED AGENT & TITLE

Please type or print clearly. Press riard.		_S MANAGEMENT SECTION	Number 107 00001	0.00
GENERATOR (GENERATOR 102/	3 Designated TSD Facility (Author	eramento, CA 95814	A Section of the second	7.07
MOST COMITECTED I	approved state program or federe	el program.)	4 Alternate TSD Facility	
2 Name Southern California Chemical		— — O — — — A	Name	
EPA # C A D 0 0 8 4 8 8 0 2 5		171718161714	EPA#	
Address 8851 Dice Rd. Phone 698-803			Address	Phone
City, State, Zip Santa Fe Springs, Ca. 906			City, State, Zip	
5 U.S. DOT PROPER SHIPPING NAME N/A	U.S. DOT UN/NA HAZARD CLASS ID NO.	OR VOLUME UNITS	NUMBER OF CONTAINERS	
WASTE	N/A None	4500 gal.	TYPE: DRUMS BAGS DCA	TRUCK
WASTE			OTHER	THOCK
6 Waste Category Mud & Water (37) 7 Ext. Haz. Wa	ste Permit No. N/A	8 Generating Proce	ss Metal Reclaiming	
CONCENTRA	TION RANGE		CONCENTRATI	
LIST COMPONENTS: UPPER 9 25	LOWER UNITS	LIST COMPONENTS:	UPPER 75	LOWER UNITS
Copper 5		E,		
Chrome	- До Дерин,	F		
Other Metals	1	Non-Hazardous Material	100 %	
10 WASTE PROPERTIES: pH 5.0-9.0 Toxic Flammable	X XXXX itant Description			RECEIVED
11 PHYSICAL STATE: Solid Slique Slurry		a Caremogen	in days	MAR 1 4 1983
12SPECIAL HANDLING INSTRUCTIONS: AGORDIO			c	0.0445-0054-00-
TEST ECINE HARDENS INSTITUTED TO TO TO THE STATE OF THE S	— Entrespirator Cother	-	٠, , , ,	O. CALIF. CHEM. CO.
GENERATOR CERTIFICATION: This is to certify that the above	named materials are properly class	sified, described, packaged, marke	d, labeled, and are in proper condition for	transportation according to the
applicable regulations of the Department of Transportation and EP/		o, i deg	of of attacher	/ ₁ 2/8/83
IN THE EVENT OF A SPILL, CONTACT THE N	ATIONAL 13 G. G.	f Authorized Agent and Title	t Mgr. I & attacher	Date Shipped
RESPONSE CENTER, U.S. COAST GUARD 1-8	10-424-00UZ Signature 0		0.000	
TRANSPORTER (HAULER MUST COMPLETE)			15 PICK-UP DATE 2-8-83	5 1/2854
14 TRANSPORTER NAME NASH SALVAGE INC.		ERANO I-CIAIDIS	9 9 0 8 0 2 9 9 3	Time 1/07 DAM DPM
ADDRESS 16211 Placid Drive	PHONE (213) 941-5117	RIVER	DRIKON MARIN	2-8-8-3
CITY, STATE, ZIP Whittier, CA 90604		Signature of Authorized	Agent and Title	Date
		The second second	i en	
TSD FACILITY FACILITY OPERATOR MUST COM	IPLETE), and a superior section of	21.02	21 HANDLING OR DISPOSAL ME	
	QUANTITY (If Measured)	410066	Surface Impoundment	•
EPA NO. [4] 1) 016171711111	19 STATE FEE (If Any) #	0700.08	☐ Injection Well ☐ Land Trea	
PHONE NO.		in the second of	Treatment (Specify)	The state of the s
20 INDICATE ANY SIGNIFICANT DISCREPANCIES BETWEEN MA	NIFEST AND SHIPMENT: CONSTRUCTO THE ZEA	nous.	Recovery or Re-use Stor	aga/Transter
IF WASTE IS HELD FOR DELIVERY ELSEWHERE, SPECIFY T	HE DESIGNATED TSD FACILITY	· I shake · · · · · · · · · · · · · · · · · · ·	r y legal i sport et letter filmer et letter filmer. Ben i de letter filmer et letter filmer et letter filmer et letter filmer.	Benedik Mitti (personal) Grand (n. 11. 11. 11. 11. 11. 11.
22 Designated TSD Facility Name			EPA NO. L.	
23	thorized Agent and Title		Date Accepted	
				erator Keeps (Send Copy to DOHS)
Copy 1-WHITE: TSD Facility Keeps (Send Copy to DOHS) Copy 2-	YELLOW: To Transporter from TSDF	Copy 3-PINK: To Generator f	TOTAL COPY 4-GOLDENHOUS Gent	nate: itempt to and only to a oriet

HAZARDOUS MATERIALS MANAGEMENT SECTION 744 P Street Sacramento, CA 95814

UNIFORM HAZARDOUS WASTE MANIFEST

(Pleas	e print or type with ELITE type (12 characters per inch).		STATE I	D NUMI	BER 8	252297
<u>.</u>	Southern California Chemical Co., Inc.				DOCUMENT	NUMBER 10
	8851 Dice Road., Santa Fe Springs, Ca.	90670		EFAIDI	VOINBER	
	AREA CODE/PHONE NUMBER (213) 698-8036		CADO	0 8 4	8 8 0 2	5 0 2 8 8 5
•	TRANSPORTER NO. 1	VEH.	/CONTAINER N	0.	EPA ID I	NUMBER
	Nash Salvage Inc., 16211 Placid Drive Whittier, Ca. 90604	OIO	0.0.3.8.4.	1		8 0 2 9 9 3
	TRANSPORTER NO. 2/ALTERNATE TSD FACILITY	West States at Settle	\$75 - A	5 GE 3		
	TREATMENT, STORAGE, OR DISPOSAL (TSD) FACILITY		·		EPA ID N	IUMBER
•	BKK LDF	introductions.				
	2210 Azusa Rd., West Covina, Ca.	n jakaran di Lar. Katan kalendaran	200			
ATO	AREA CODE/PHONE NUMBER (213) 965-0916	UN/NA	TOTAL	UNIT	CONTAINE	7 8 6 7 4 9 R WASTE
ER/	PROPER U.S. D.O.T. SHIPPING NAME AND HAZARD CLASS	NUMBER		WT/VOL		
GEN	Unspecified Sladge Waste	N/A				
- ¥		MUNE	14171010	<u> 6</u>	0 0 1 T	C 4 9 1
<u>Z</u>	COMPONENTS			CONC.	RANGE	UNITS
LED	COMPONENTS		an energy	UPPER	LOWER	% ppm
EFIL	Iron Copper			25 5	15 2	X
. O	Chrome	Li jaron series de la ciencia		- 3	.1	X may my
Ī	Other Metals			1	1	X
	Kater	estice terms of the er ring and the Profit of the terms of terms of the er	717 (12) 219 (12)	75 -	60	X
	SPECIAL HANDLING INSTRUCTIONS	er grand the second control of the second co	Tan artist arress are	3 (1 ° 3) . s. s. s. 1 ° 303	The Market	\$1.00.00 A 15.00 A
	Gloves, Goggles				ئىلىن ئىلىنىڭ ئىلىنىڭ ئىلىنىڭ ئىلىنىڭ ئىلىنى	
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	This is to certify that the above-named materials are properly classifie	engined package	ed marked and b	aboled as	A are to prope	- andition for took
	portation according to the applicable regulations of the Department of	Transportation and	the EPA.	Carrett and		T CONDITION TO TRAIS
	G. G. Otterbach, Plant Hanager PRINTED OR TYPED FULL NAME AND SIGNATURE	The Coloredt	**		МО.	DAY YR.
	PRINTED OR TYPED FULL NAME AND SIGNATURE		The same of the same	o. September	0 4	12 813
.	CHECK IF CONTINUATION SHEET IS USED. NUMBER OF CO		ETS			
BY.	TRANSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF ABOVI	E MATERIALS		***	DATE RE	C'D & ACCEPTED
O IN I	Mash Salvage Driver		- may 2-	الله المستورية المراجعة المراجعة المراجعة	MO.	DAY YR.
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' 삪 줆]	Facility owner or operator: Certification of receipt of hazardous main the discrepancy Indication space above. Note: TSDF must complete	terial covered by this waste number. See I	manifest except	as noted	DATE RE	C'D & ACCEPTED
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	PRINTED OR TYPED FULL NAME AND SIGNATURE TU	CAMAN	EPA ID NUMBE	47/1	MO.	(TAT FET)
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H. ABBOUS WASTE MANAGEMENT BRANCH 74 P Street Sacramento, CA 95814

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	GENERATOR NAME AND MAILING ADDRESS	······································		М	ANIFEST	DOCUMEN	IT NUI	MBER
	Southern California Chemical Co., Inc. 8851 Dice Road, Santa Fe Springs, Ca. 9067	0		EF	PA ID NUM	MBER		
	AREA CODE/PHONE NUMBER (213) 658-2036		TVEH (ONTAINER	<u> </u>			أولهلها
	Nash Salvage, Inc., 16211 Flacid Drive Whittier, Ca. 90604		VEH./C	- (1	0.	EFA	3-140 16	BEH O
			-1-1	1/1/7		اقلقاط	olsi	
	TRANSPORTER NO. 2/ALTERNATE TSD FACILITY		V.EH./C	ONTAINERN	0.	EPAI	D NUN	1BER
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.	TREATMENT, STORAGE, OR DISPOSAL (TSD) FACILITY		11			EPA I	DNUN	 ∕BER
ENERATOR	DKK IDP 2210 Azusa Rd., West Covina, Ca. (213) 965-0916 AREA CODE/PHONE NUMBER	- :	**************************************		CLA	וחומובו	7 7	8 6 7
E E E E	PROPER U.S. D.O.T. SHIPPING NAME AND HAZARD CLASS	. UN/NA		TOTAL	UNIT	CONTAIL	NER	WASTE
, B		NUMBEI	R	QUANTITY	WT/VOL	NO.	TYPE (CAT NO.
N Q	Unspecified Sludge Waste (Con-Halogenated)	NONE		14151010	G	01011	TIC	4 9 7
FILLE				1111				
0 B E	COMPONENTS				CONC UPPER	. RANGE	۹	UNITS
	Tron				25	15		X
-	Copper				5	2		X
_	Other Metals Water				1 75	60	:	X
	SPECIAL HANDLING INSTRUCTIONS Gloves, Gogles							
_	This is to certify that the above-named wastes are properly classified, described in proper condition for transportation according to the applicable requirement and the EPA.	d, packaged, makes of the Depart	arked and trent of	d labeled, and a Transportation	nre M	o.] [DAY	YR
	G. G. Otterbach, Plant Manager Printed or typed full name and signature				n	7	2 8	[3
	☐ Check if continuation sheet is used. Number of continuation sheets TRANSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF ABOVE WAS1				1	0.1	DAY	T YE
BE FILLED IN TRANSPORTER	Nash Salvage Driver Printed or typed full name and signature			A. Ri	ATE M EC'D & EPTED			
TO BE FI	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF ABOVE WAST	ES	*N ₂ -	R	ATE ME EC'D	0.	DAY	YF
<u>- = = </u>	Printed or typed full name and signature DISCREPANCY INDICATION SPACE		-	ACC	- 1EU			
O BE FILLED IN BY TSDF							D-1	6
TO BE FIN BY	Facility owner or operator: Certification of receipt of hazardous waste covere in the discrepancy indication space above. Note: TSDF must complete waste number. See instructions.	,	fest exce		DA M	TE RECEI	VED &	ACCEPT

S et UNIFORM HAZARDOUS	WASTE MANIFE	EST				
nemo, CA 95814		STATE ID N	JIIMBER	3 3040	100	
c it or type with ELITE type (12 characters per inch). GENERATOR NAME AND MAILING ADDRESS	•			DOCUMENT N		
tant I		- "	ANTI EST	DOCOMENT N	OMBER	
Southern California Chemical Co., Inc. 8851 Dice Road, Santa Fe Springs, Ca. 90670) ~ ,	E	PA ID NUM	1BER	1	
(213) 693-3036	- 10 <i>3.1</i> 0					
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TRANSPORTER NO. 1		1./CONTAINER I	•••	2121010	NIBER	
Nash Salvage, Inc., 16211 Placid Drive Whittier, Ca. 90604	l	,				
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TRANSPORTER NO. 2/ALTERNATE TSD FACILITY		1./CONTAINER N		SPAID N		چا وا
TRANSPORTER NO. 2/ALTERNATE ISD FACILITY	V.EF	1./CONTAINER	10.	EFAIDN	JWREH	
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TREATMENT, STORAGE, OR DISPOSAL (TSD) FACILITY			$\sqcup \sqcup$			
BKK LDF				EPA ID N	NREH	:
= 2210 Azusa Rd., West Covina, Ca.						
(213) 965-0916						
AREA CODE/PHONE NUMBER	T	1	1	جلجا علدام	, -	
PROPER U.S. D.O.T. SHIPPING NAME AND HAZARD CLASS	UN/NA NUMBER	TOTAL	UNIT WT/VOL	CONTAINER	WASTE CAT NO.	
						_
Unspecified Sludge Waste (Non-Halogenated)	NIOHHELL	4151010		ololi Tic	4 9 1	<u>کر ر</u>
	1	1			1 1	
<u> </u>		- 	CONC.	RANGE	UNITS	
COMPONENTS			UPPER	LOWER	%	PPM
Iron			25	15	x	
Copper			5	2	X	
Zirc Vater			1 75	.2	X	
SPECIAL HANDLING INSTRUCTIONS	ECEIVE			11		
	NOV 8 1983)				
Gloves, Goggles	1101 0 1303)				
- \$0.	CALIF. CHEM.	co.				
This is to certify that the above-named wastes are properly classified, described	I. packaged, marked	and labeled, and a	are			
n proper condition for transportation according to the applicable requirement and the EPA.				DAY		R.
G. G. Otterbach, Plant Manager	***************************************					
Printed or typed full name and signature			1	0 0 16	В	_3
☐ Check if continuation sheet is used. Number of continuation sheets RANSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF ABOVE WAST	ES /		ATE MO	D. DAY	Y	R.
Nash Salvage Driver	1711		EC'D		-	
rinted or typed full name and signature (000) 1(10570	1 11/1/2	ACC	EPTED 1	0 06	-1	5
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rinted or typed full name and signature		ACC	& EPTED		1 1,	
SISCREPANCY INDICATION SPACE					JJJ	
T						_,
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wacility owner or operator: Certification of receipt of hazardous waste covered	by this manifest ex	ccept as noted	DAT	E RECEIVED	& ACCEPT	E D
in the discrepancy indication space above. Note: TSDF must complete waste number. See instructions.		NUMBER	MC		Y	
in the second se		_				-
inted or typed full hame and signature	CA OCAS			<u>त्र</u> ाव त	4 121	7
TSDF SENDS THIS COP	~ T () (¬ F N F F A	TILIE WHIELIN	17 117 4	_		

71 744 P Street Sammento, CA 95814

Please prin	t or type with ELITE type (12 characters per inch).		STATEID	NUMBER	835	87061
	GENERATOR NAME AND MAILING ADDRESS			MANIFEST DO	DCUMENT NUN	
1	Southern California Chemical Co. 8851 Dice Road		i	EPA ID NUME		
	Santa Fe Springs, CA 90670 AREA CODE/PHONE NUMBER (213) 629-8035			1 1 1 1	1111	
7	TRANSPORTER NO. 1	V	EH./CONTAINER	300 C 4	8 UERA PON	UMBER
	189 Nash Salvage Inc. 16211 Placid Drive Whittier, CA 90604		.6			
,	TRANSPORTER NO. 2/ALTERNATE TSD FACILITY	- V.	EH./CONTAINER I	VO. CA	D SEPA 10 M	UMBE 9 9
*	• .					
	· Return to Generator					
7	TREATMENT, STORAGE, OR DISPOSAL (TSD) FACILITY				EPA ID N	LIMBER
-	Environmental Protection Corporation Westside Disposal				EFA ID N	OMBER
ERAT	Highway 33 Fellows, CA. (809)327	-9681				
=	PROPER U.S. D.O.T. SHIPPING NAME AND HAZARD CLASS	UN/NA NUMBER	TOTAL	UNIT WT/VOL	CONTAINER	WASTE DE
Z	R.O. Hazardous Waste, Liquid, M.O.S. OBY-E	M V S 1 S	اواواها	6	عام اجلمان	7 7 3 2 0
96				50112	2005	NAME OF
-	COMPONENTS			UPPER	RANGE LOWER	UNITS % PPA
7	Iron Copper			25 15	15	X
7	Zinc Chrome, Trivalent Salt		t et	1 2	0.2	X
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	SPECIAL HANDLING INSTRUCTIONS					
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-	G. G. Otterbach, Plant Manager	-1 6 70				
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TO W	Facility owner or operator: Certification of receipt of hazardous waste covered by discrepancy indication space above. Note: TSDF must complete waste number. See instructions.		NUMBER	MO	TE RECEIVED 8	
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Department of Health BOL DIVISION UNIFORM HAZARDOUS WASTE MANIFEST FORM NO. DHS-8022A 3-84 83611314 rin r type with ELITE type (12 characters per inch). STATE ID NUMBER GENERATOR NAME AND MAILING ADDRESS MANIFEST DOCUMENT NUMBER Southern California Chemical Co. EPA ID NUMBER 8851 Dice Road AREA COSEPHONE PUNDERINGS, CA 90670 TRANSPORTER NO. 1 NAME AND MAILING ADDRESS 189 Nash Salvage Inc. 16211 Placid Drive Whittier, CA 90604 TRANSPORTER NO 27 ALTERNATE TSD FACILITY V.EH./CONTAINER NO Return To Generator AREA CODE/PHONE NUMBER TREATMENT, STORAGE, OR DISPOSAL (TSD) FACILITY Environmental Protection Corporation Westside Disposal AREA CODE PHONE NUMBER Fellow, CA (805) 327-9681 UN/NA TOTAL UNIT PROPER U.S. D.O.T. SHIPPING NAME AND HAZARD CLASS TYPE CAT. NO METH NUMBER QUANTITY WT/VOL Hazardous Wsate, Liquid, N.O.S. 0010113203 14000 N | A | 9 | T | 8 | 9 CONC. RANGE UNITS COMPONENTS UPPER LOWER Copper 15 0.2 Zinc 📆 0.5 Chrome, Trivalent Salt 5 Ammonium Sulfate Caustic Soda Water 以表现分 SPECIAL HANDLING INSTRUCTIONS Gloves & Goggles This is to certify that the above-named wastes are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable requirements of the Department of Transportation and the EPA MO. G. G. Otterbach - Plant Manager Printed or typed full name and signature Check if continuation sheet is used. Number of continuation sheets TRANSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF ABOVE WASTES MO. DAY DATE REC'D zio ACCEPTED 117 TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF ABOVE WASTES DATE MO: DAY REC'D ACCEPTED Printed or typed full name and signature DISCREPANCY INDICATION SPACE DATE RECEIVED & ACCEPTED Facility owner or operator: Certification of receipt of hazardous waste covered by this manifest except as noted in the discrepancy indication space above. Note: TSDF must complete waste number. DAY MO See instructions. Printed or typed full name and signature

UNIFORM HAZARDOUS 1. Generator's US EPA ID No. Manifes WASTE MANIFEST CAD 0 0 8 4 8 8 0 2 5				
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	3. Generator's Name and Mailing Address Southern California Chemical Co., 8851 Dice Road, Santa Fe Springs, 4. Generator's Phone (213) 698-8036			B.Sta	6 Manifest D 53600 te Generator's	ID .	10 152
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	9. Designated Facility Name and Site Address Environmental Protection Corporat Westside Disposal, Hwy. 33, Fello (805) 327-9681			G.Stat	lity's Phone	00	10243
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(1) CI SPY TO GENERATOR WITHIN 30 DAYS

Department of Health Ser Toxic Substances Control Div Sacramento, Calife

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П	9. Designated Facility Name and Site Address 10.	US EPA ID Numb	er ·		Facility's ID		WE HARRY
П	Environmental Protection Corp.	OU ETA ID HUITE	·.		· · · · · · · · · · · · · · · · · · ·		
П	Westside Disposal, Highway 33, Fellows	- C8			08001028	3	
П				200	A CAMPAGE OF STREET		
		A. T. 0.8.0.01 0	112 Conta	iners (<u> 15/32/-96</u> 13.	14	AND CONTRACT OF A STATE OF
١,	11. US DOT Description (Including Proper Shipping Name, Haze	ard Class, and ID Number,	4		Total	Unit	Waste N
G	8.		No.	Туре	Quantity	Wt/Vai	C. SLAVE FOR
N	Hazardous Waste, Liquid, N.O.S. ORM-	NACTOO			* * * * * * * * * * * * * * * * * * * *		
E	DOT # 8822	: IV13103	0.0.1	E -	3800		
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	J. Additional Descriptions for Materials Listed Above		-13	K.Hand	ling Codes for	Wastes	Listed Abov
	Chrome +3 Approx 3%	iquid pH= Above					
	Copper 37	THE THE TOP	5.5.5.3		To the state of	2107	IN L
	Nickel 0.5%		5 - E	de la		392	
		15. 15. 15. 15. 15. 15. 15. 15. 15. 15.	15.45	200			200
	Iron 32			200	No. of the Contract of		The second second
	15. Special Handling Instructions and Additional Information	Alternate TSD		a cma T	1 Page		THE PERSON OF A
		Alternate TSD	-		ia Resour		C1 024
	15. Special Handling Instructions and Additional Information	Alternate TSD	N	TU Ro	ad, Gasma		CA 934
		Alternate TSD	N 8	TU Ro 05/93	ad, Gasma 7-8449		CA 934
	15. Special Handling Instructions and Additional Information	Alternate TSD	N 8 C	TU Ro 05/93 AD020	ad, Basma 7-8449 748125		CA 934
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APPENDIX E

LAB	REQUEST

Pate Submitted:	2-5-85	Lab No	0411	
From: 6,0	Herbach	Representing:		
;ample Source:	Mudge	from the	poud #/	
	at SFS	placet /	scc-cp).	
♥ample Description	on:			
			·	
Analysis Required	:			
- -				
Sample Identifica	tion	Analysis		-
_ (Lab No.)				
•	Sa	uple "as is"	Dried saug	ble.
	Cu	uple "as is" 2,9%	12,3%	
•	Fe	2.06%	8.77%	
	Zn	0.9%	3.67%	
	Cr	0.54%	2,24%	
	• • •	0.026%	0.12%	
	PE	5.029%	0.15%	
•	Cd	nie	0.03%	
\mathcal{D}	Na esidue	2.91 %	12.65%	
	esecure	.35 % Moistu	ue = 76.5% 4.7%	
Date Completed:	2-6-85	By: Sec	u= 16.5% 4.7% of one 16.5%	lia
SCC-79				

E-1

LAB REQUEST

Date Submitted:	10-09-84 Iab	No	
: rom:	Otterbach Rep	resenting:	
Sample Source:	• • •		
244			
Cample Description	: Sludge	from Pe	med
= 1,	- Je	0	
		. •	
		- 2 7	
nalysis Required:	Cu, Ni, F	e, Cr, Lin.	
Sample Identificat		Analysis	1 1/2
(Lab No.)	10-0	19-84) (10	-10-84 Wit
•	Cec = 7.2,	% Cu =	3.6%
•		, ·/	
	re = 18.1	/o Fe =	9.0%
•	In = 1.64	10/2 In =	0.81%
•	c - 0.87	0/	
	(z - 0,0)	Cr =	- 0.46°/0
	Cz = 0.87 Ni = nie	Ni =	nie
•		•	
Date Completed:	10-09-84 By:	Source	le
SCC-79	•		
9/14/76			

LAB REQUEST

Date submitted_	2-19-85	Lab No	0.539	
From G. C	Herbark.			
Sample source	Steeding	Sauchle	from	
Post	ett affer	Cy-tapa	from	
Sample description	7			
				-

	No. of			
		······································		
Analysis require	i			
Sample Identifica	ation			
(Lab No.)		Analysis		
	<u> </u>	70		
	Fe = 1.6	0/0		
101	tal Cr = 3.8	0/0		
	In = 0.31	10/		
	Ni = 0.0/0	6%		
	Pl = 0.00			
	Cd = nil	~/		
		0/		
· · · ·	sture = 69.	23%		
	slure - 69.	23/3		
			2/	
Date completed	2-20-85	Ву 501	ma San	antes
SCC-79 Rev 10/14/77		F-3		
		1		